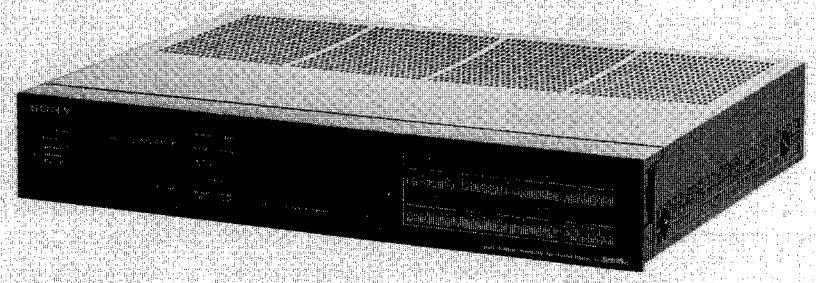
ST-S555ES

US Model
Canadian Model
AEP Model



FM STEREO TUNER

SPECIFICATIONS

General

System	PLL quartz-locked digital synthesizer system
Power requirements	AEP model: 220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50/60 Hz US, Canadian model: 120 V ac, 60 Hz
Power consumption	AEP model: 25 watts US, Canadian model: 23 watts
Dimensions	Approx. 430 x 80 x 340 mm (w/h/d) (17 x 3¼ x 13½ inches) including projecting parts and controls
Weight	AEP model: Approx. 4.9 kg (10 lbs 13 oz) net Approx. 5.9 kg (13 lbs 1 oz) in shipping carton US, Canadian model: Approx. 4.8 kg (10 lbs 10 oz) net Approx. 5.8 kg (12 lbs 13 oz) in shipping carton

0 dB = 0.775 V

— Continued on page 2 —

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

SONY

SERVICE MANUAL

FM tuner section

Tuning range 87.5 MHz - 108 MHz
Antenna terminals two, 75 ohms, unbalanced
Intermediate frequency
10.7 MHz

	at 40 kHz deviation	at 75 kHz deviation
Sensitivity	at 46 dB quieting 2 μV (mono) 22.5 μV (stereo)	at 50 dB quieting 16.8 dBf, 1.8 μV (mono) 37.9 dBf, 22.5 μV (stereo)
Usable sensitivity	0.8 μV (S/N = 26 dB)	10.3 dBf, 0.9 μV (IHF)
Signal-to-noise ratio	86 dB (mono) 80 dB (stereo)	92 dB (mono) 86 dB (stereo)
Harmonic distortion	IF BAND : WIDE 0.03% (mono), 0.05% (stereo) at 100 Hz 0.03% (mono), 0.04% (stereo) at 1 kHz 0.03% (mono), 0.12% (stereo) at 10 kHz IF BAND : NARROW 0.05% (mono), 0.07% (stereo) at 100 Hz 0.05% (mono), 0.06% (stereo) at 1 kHz 0.05% (mono), 0.15% (stereo) at 10 kHz	
IM distortion	IF BAND : WIDE 0.03% (mono), 0.04% (stereo)	
Separation	IF BAND : WIDE 55 dB at 100 Hz 60 dB at 1 kHz 45 dB at 10 kHz	
Frequency response	40 Hz – 12.5 kHz ±0.2 dB 30 Hz – 15 kHz $^{+0.2}_{-0.5}$ dB	30 Hz – 15 kHz $^{+0.2}_{-0.5}$ dB

Selectivity	at 300 kHz 30 dB (IF BAND : WIDE 57 dB (IF BAND : NARROW)	at 400 kHz 60 dB (IF BAND : WIDE) 90 dB (IF BAND : NARROW)
Capture ratio	1.0 dB	
AM suppression ratio	65 dB	
Image response ratio	120 dB	
IF response ratio	100 dB	
Spurious response ratio	120 dB	
RF intermodulation	78 dB (IHF), 100 dB (2.4 MHz)	

Sub-carrier product ratio
78 dB
Muting threshold Approx. 25 dBf, 5 μV
Auto-tuning threshold
Approx. 25 dBf, 5 μV
Output level/impedance (75 kHz deviation)
750 mV, 620 ohms, transformed by the supplied A.C.T. cable
Calibrating tone level
50% modulation (37.5 kHz deviation), 400 Hz
Antenna B attenuator 20 dB

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

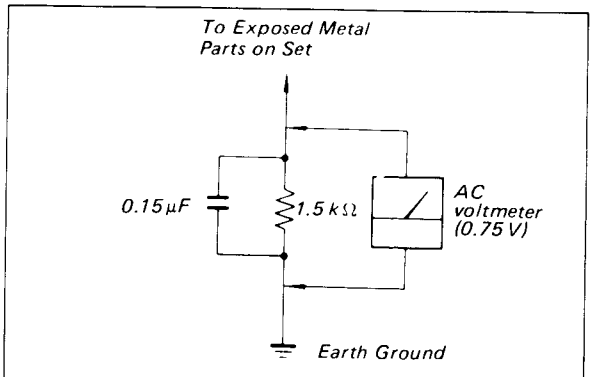
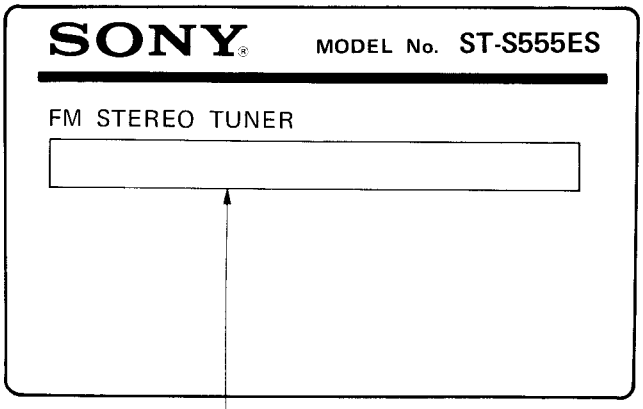


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

— Specification Label on Jack Plate —



US model:	AC 120V	60Hz	23W
Canadian model:	AC 120V	60Hz	23W
AEP model:	AC 220V ~	50/60Hz	25W

FEATURE

PLL-CIRCUIT EMPLOYING DIRECT COMPARATOR TECHNOLOGY

The ST-S555ES with its refined Phase Locked Loop (PLL) circuit can tune to a frequency with extraordinary precision.

An IC developed by Sony allows the comparison frequency to be as high as the 50 kHz channel spacing frequency, thus eliminating the tendency of a low comparison frequency, which was formerly generally employed, to slip into the audio range and degrade the signal-to-noise ratio. The local oscillator output can therefore be directly supplied to the programmable divider section without an additional pre-scaler. We call this PLL-circuit technology the Direct Comparator method.

The result is almost rippleless local oscillation, greatly reduced spurious radiation, and an extremely high signal-to-noise ratio.

STATE OF THE ART

Every element of the ST-S555ES is chosen with an eye to optimum reception. Dual-gate MOS FETs in the RF amplifier, and five varactors in the front-end block insure high sensitivity and an excellent spurious response ratio. Four uni-phase filters in the IF amplifier provide high selectivity. The PLL multiplex decoder with a pilot canceler insures a flat frequency response, clear separation and very low distortion.

EFFORTLESS TUNING

Tuning is easy using the digital frequency readout in the frequency display window.

Three methods of tuning are available :

Automatic tuning, in which the entire FM band is scanned automatically until a signal is received.

Manual tuning, in which the FM band can be scanned either rapidly or step-by-step.

Memory preset tuning, in which the frequencies of up to eight stations can be stored in the non-volatile memory. In this mode, this information will be retained when the power is turned off so that you can tune in your favorite station with the push of a button. Various conditions can also be memorized for each individual station to permit one-touch reception. All the memorized settings are displayed in the FL display window.

The SCAN/READ button allows you to scan automatically the preset stations only, listening to each one for a few seconds to check if there is anything you would like to listen to.

TWO ANTENNA INPUTS

The tuner is provided with two antenna input terminals to permit two different antennas to be oriented in the best direction for the station to be received. Either antenna input can be easily chosen with the front panel antenna selector. The antenna attenuator switch can reduce the antenna B input by 20 dB to tune in the desired station more clearly, suppressing possible IM distortion caused by strong adjacent stations.

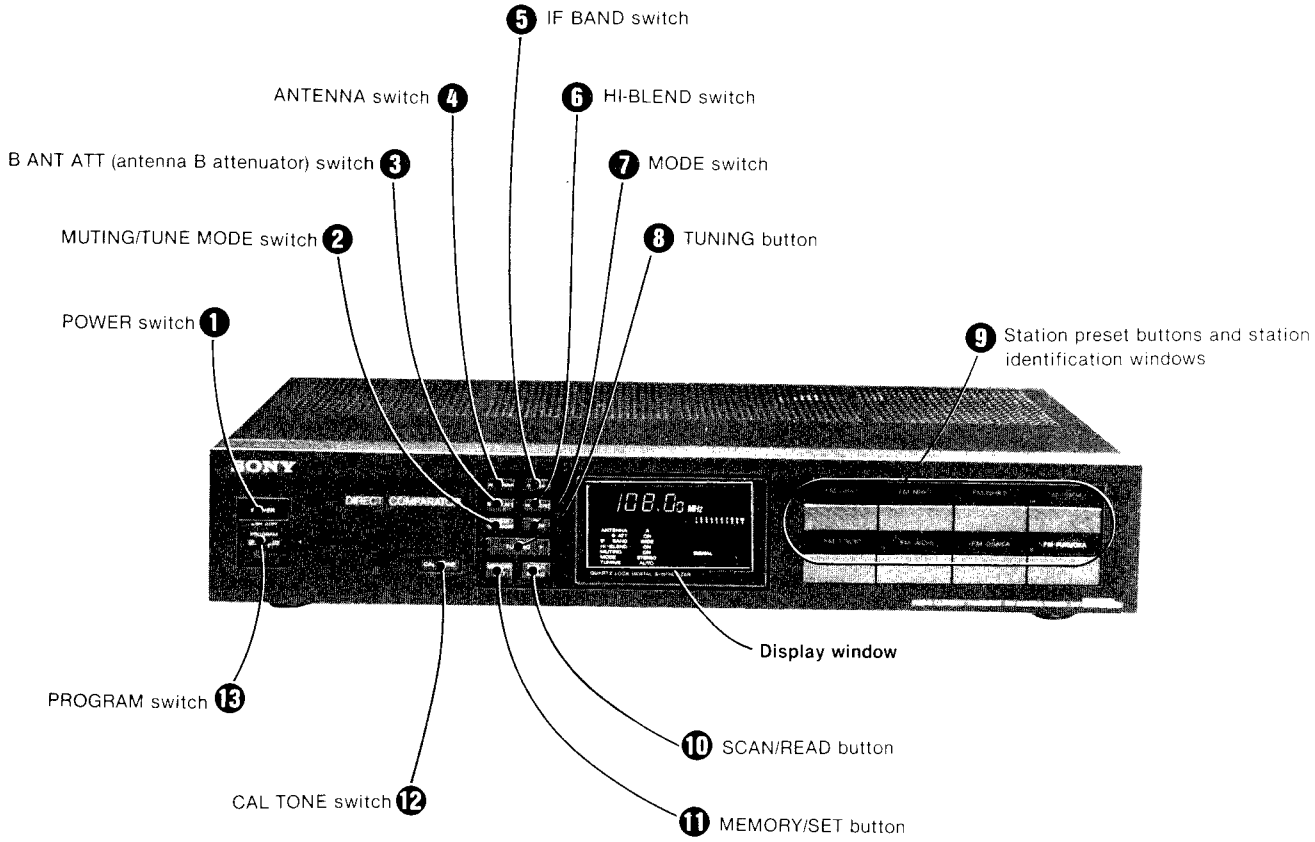
A.C.T. (AUDIO CURRENT TRANSFER) CIRCUIT

This tuner employs the A.C.T. technique developed for Sony integrated amplifiers. The A.C.T. circuit design virtually eliminates the problems which the conventional voltage transfer design had : electrical interference between the left and right channels, decreased sound quality, distortion, noise, etc. caused by the fact that both the signal source current and the power supply current flow through the same ground.

This technique insures the tuner's high-quality reception performance.

LOCATION OF CONTROLS

Each number in the photo is keyed to the descriptive text.



❶ POWER switch
Depress to turn on the power. To turn the power off, press the switch again.

❷ MUTING/TUNE MODE switch
This switch serves a dual purpose: it is a tuning system selector and a muting switch.
To tune in a station with the automatic tuning system, press this switch so that the TUNING AUTO indicator lights up. In this mode, the muting circuit will be activated to eliminate interstation noise while tuning and the MUTING ON indicator will light up.
When you want to tune in a very weak station with the manual tuning system, press the switch again so that the TUNING MANUAL indicator lights up. The muting circuit will be deactivated and the MUTING OFF indicator will light up. In this mode, keep the amplifier volume down to avoid speaker damage caused by interstation noise.

❸ B ANT ATT (antenna B attenuator) switch
When this switch is pressed and the B ATT ON indicator lights up, the input signals from the antenna B will be reduced by 20 dB. When the switch is pressed again and the B ATT OFF indicator lights up, the input signals will be received at their original strength.

❹ ANTENNA switch
When this switch is pressed and the ANTENNA A indicator lights up, the input signals from the antenna connected to the ANTENNA A terminal will be received by the tuner. When the switch is pressed again and the ANTENNA B indicator lights up, the input signals from the antenna connected to the ANTENNA B terminal will be received.

❺ IF BAND switch
Normally keep this switch in the WIDE position (the IF BAND WIDE indicator lights up). Low-distortion, hi-fi sound can be obtained.
When there is interference by adjacent stations, press the switch so that the IF BAND NARROW indicator lights up. The higher selectivity will improve the reception.

❻ HI-BLEND switch
When FM stereo signals are weak and noisy, press this switch so that the HI-BLEND ON indicator lights up.
This will provide better reception, although the stereo effect at high frequencies is slightly reduced.
To disengage the switch, press it again. The HI-BLEND OFF indicator will light up.

❼ MODE switch
Normally keep this switch in the STEREO position (the MODE STEREO indicator lights up). The tuner operates in the stereo mode for stereo sound sources and will be automatically switched to the mono mode for monaural sound sources.
When an FM program is too noisy, press the switch so that the MODE MONO indicator lights up. This will enable the tuner to receive weak stations, although the stereo feature is sacrificed.

❽ TUNING button
Press either side of this button to change the received frequency: press the left side [–] to go to a lower frequency and the right side [+] to go to a higher.
During automatic tuning: Press to start automatic frequency scanning. The frequencies below or above that shown on the display window will be scanned automatically until a signal is received. To resume scanning, press the button again.
During manual tuning: Press and keep the TUNING button depressed to change the frequency continuously until the figures in the frequency display window approach the desired frequency. The frequency figures will change rapidly. To change the frequency slowly (in 0.05 MHz steps) to tune in a station accurately, press the button and release immediately.
When the frequency figures reach the end of the tuning range, the frequency will then be scanned from the opposite end of the tuning range.

❾ Station preset buttons and station identification windows
To call up a memorized station, press the appropriate button.
Station labels (supplied) identifying memorized stations can be placed in the station identification windows above the buttons.

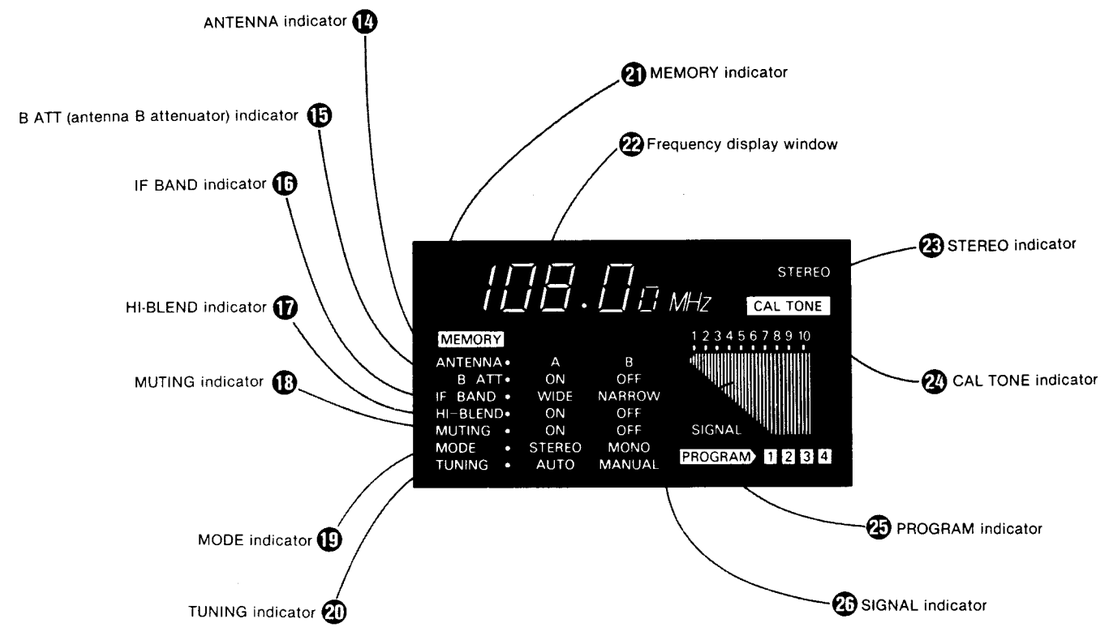
❿ SCAN/READ button
This button has a dual purpose. With the PROGRAM switch set to OFF, it works as a memory SCAN button and with the PROGRAM switch set to ON, as a program READ button.
SCAN button: Press to automatically scan the stations memorized on the station preset buttons.
READ button: By pushing this button, the programmed station order can be checked.

⓫ MEMORY/SET button
This button has a dual purpose. With the PROGRAM switch set to OFF, it works as a MEMORY button and with the PROGRAM switch set to ON, as a program SET button.
MEMORY button: Press to memorize the tuned station to a station preset button. The MEMORY indicator will appear in the frequency display window for about 3 seconds indicating that the preset memory circuit is standing by.
SET button: Press to program the preset stations in the desired order. The MEMORY indicator will appear indicating that the program circuit is standing by.

⓬ CAL TONE switch
Normally keep this switch disengaged so that the CAL TONE indicator is not lit.
To obtain a 400 Hz, 50% modulated signal for adjusting the recording level on a tape recorder, press the switch. The CAL TONE indicator will light up.
Generally, on cassette decks, adjust the recording level so that the VU meters deflect as close as possible to –3 dB, or the peak meters to –4 dB, and on reel-to-reel tape decks the VU meters deflect as close as possible to 0 dB. However, depending on the broadcast programs or the tapes you use, some further adjustments may be necessary. You can determine the most appropriate recording level for your tape deck after several trials, using the suggested levels as a starting point.
To disengage the CAL TONE switch, press the CAL TONE switch again or press any of the tuner switches.

⓭ PROGRAM switch
To use the program function, set this switch to ON. For ordinary use, be sure to keep the switch in the OFF position.

DISPLAY WINDOW



⓮ ANTENNA indicator
Indicates the setting of the ANTENNA switch.

⓯ B ATT (antenna B attenuator) indicator
Indicates the setting of the B ANT ATT switch.

⓰ IF BAND indicator
Indicates the setting of the IF BAND switch.

⓱ HI-BLEND indicator
Indicates the setting of the HI-BLEND switch.

⓲ MUTING indicator
Indicates the setting of the MUTING switch.

⓳ MODE indicator
Indicates the setting of the MODE switch.

⓴ TUNING indicator
The AUTO indicator shows the automatic tuning mode, and the MANUAL indicator, the manual tuning mode.

㉑ MEMORY indicator
When the MEMORY/SET button is pressed, "MEMORY" will appear for about 3 seconds indicating that the memory circuit is standing by.

㉒ Frequency display window
The frequency being received is displayed here in digits.

㉓ STEREO indicator
This indicator will light when an FM stereo program of sufficient signal strength is tuned in with the MODE switch set to STEREO.

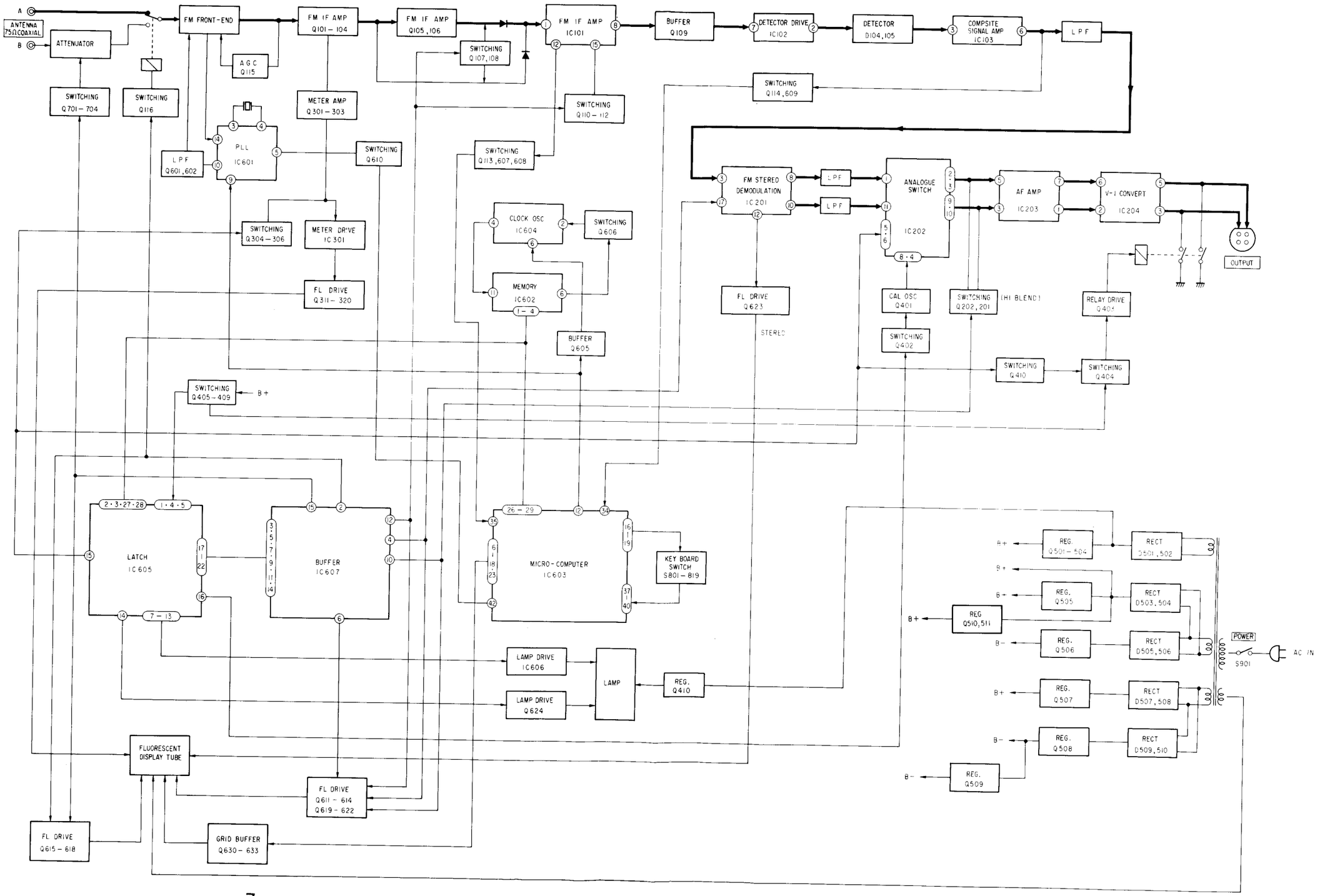
㉔ CAL TONE indicator
Lights up to show that a 400 Hz calibrating tone signal is provided by the CAL TONE switch.

㉕ PROGRAM indicator
With the PROGRAM switch set to ON, the order in the programmed sequence of the station being received is displayed here.

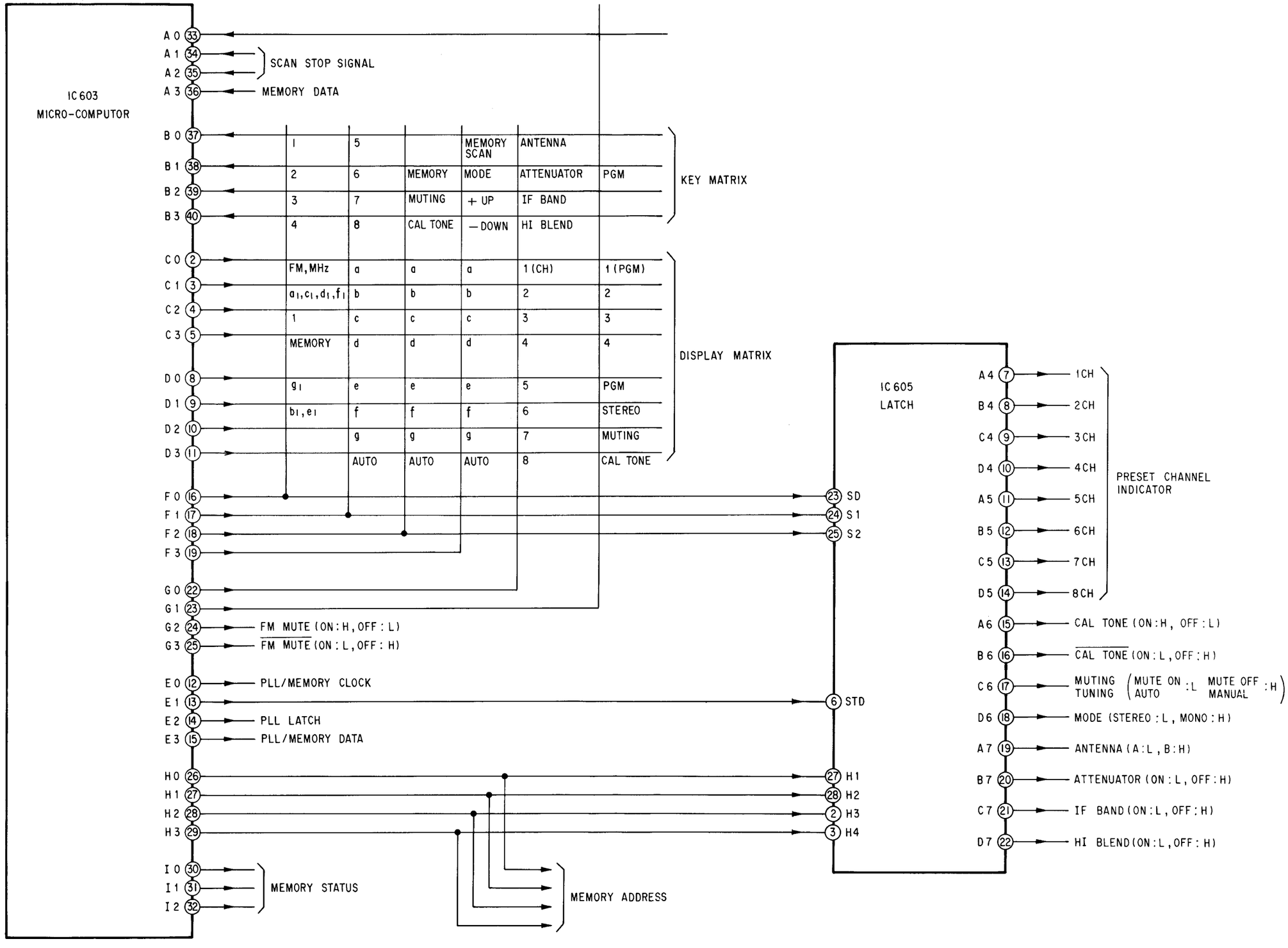
㉖ SIGNAL indicator
Indicates the strength of the tuned signal by the amount of indicator illumination. The fullest illumination means the antenna input signal is strong. When the indicator illuminates only at the low end, it means the antenna input signal is weak.
The lines tracing the upper and lower ends of the vertical bars indicate the signal-to-noise ratio curves.

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM



IC603's (SYSTEM CONTROLLER IC μPD553C225) TERMINAL FUNCTIONS



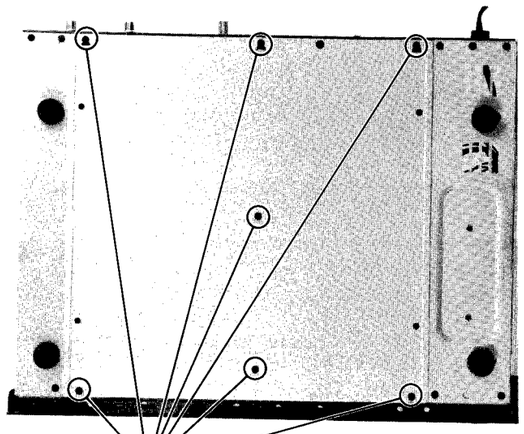
	1	5		MEMORY SCAN	ANTENNA	
	2	6	MEMORY	MODE	ATTENUATOR	PGM
	3	7	MUTING	+ UP	IF BAND	
	4	8	CAL TONE	— DOWN	HI BLEND	
	FM, MHz	a	a	a	1 (CH)	1 (PGM)
	a_1, c_1, d_1, f_1	b	b	b	2	2
	1	c	c	c	3	3
	MEMORY	d	d	d	4	4
	g_1	e	e	e	5	PGM
	b_1, e_1	f	f	f	6	STEREO
		g	g	g	7	MUTING
		AUTO	AUTO	AUTO	8	CAL TONE

SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

CASE REMOVAL
Remove 4 case screws.

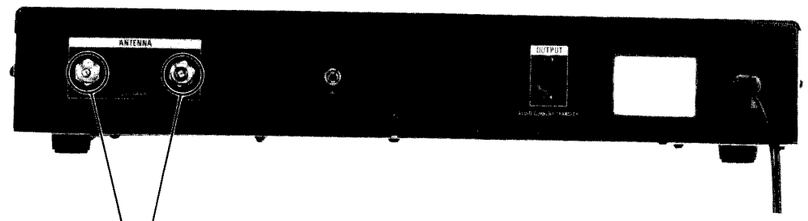
BOTTOM PLATE REMOVAL



Remove +BVTT3 x 6 (7 pieces).

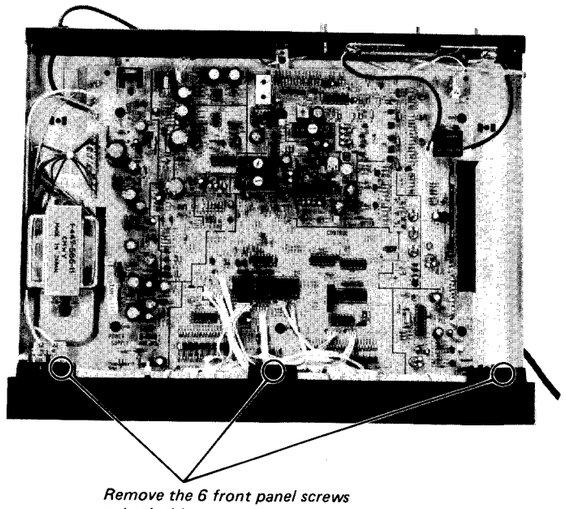
Tuner board can be checked by removing the bottom plate.

ANTENNA BOARD REMOVAL



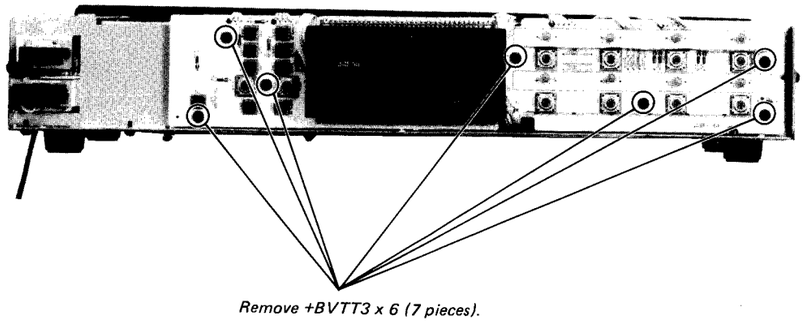
Remove 2 nuts.

FRONT PANEL REMOVAL



Remove the 6 front panel screws at both sides.

DISPLAY BOARD REMOVAL

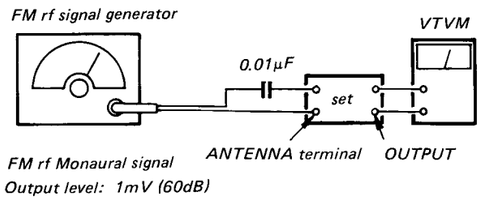


Remove +BVTT3 x 6 (7 pieces).

SECTION 3
ADJUSTMENTS

Output Level Adjustment

Setting:

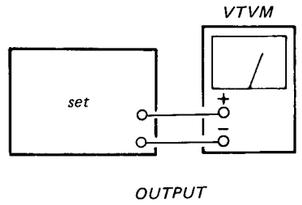


Procedure:

Adjust RT204 (L-CH) and RT254 (R-CH) for 0dB (0.775V) reading on VTVM.

CAL TONE Level Adjustment

Setting:



Procedure:

1. Press CAL TONE switch.
2. Adjust RT401 for –6dB (0.39V) reading on VTVM.

US, Canadian Model

FM rf Stereo Signal	FM rf Monaural Signal
Carrier frequency: 98MHz Modulation: Audio 400Hz, 33.75kHz deviation (45%) Subchannel 33.75kHz deviation (45%) Pilot 19kHz 7.5kHz deviation (10%)	Carrier frequency: 98MHz Modulation: 400Hz, 75kHz deviation (100%)

AEP Model

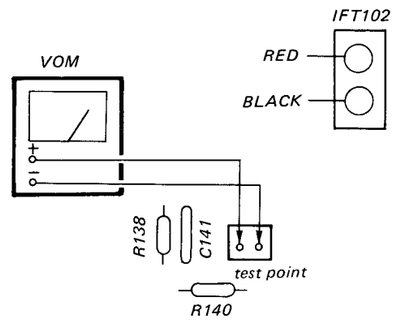
FM rf Stereo Signal	FM rf Monaural Signal
Carrier frequency: 98MHz Modulation: Audio 400Hz 16.25kHz deviation (40%) Subchannel 16.25kHz deviation (40%) Pilot 19kHz 7.5kHz deviation (19%)	Carrier frequency: 98MHz Modulation: 400Hz, 40kHz deviation (100%)

Discriminator Adjustment

A) Primary Side

- **Procedure**

1.

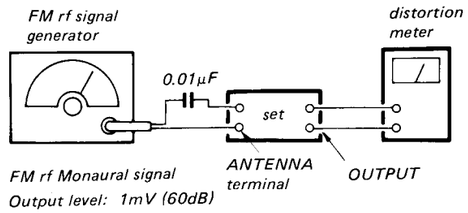


2. Detune the set by pushing the TUNING (+, –) button.
3. Turn the core (primary side: Black) of IFT102 for 0V reading on VOM.

Note: When the ceramic filter is replaced, these adjustments should be made.

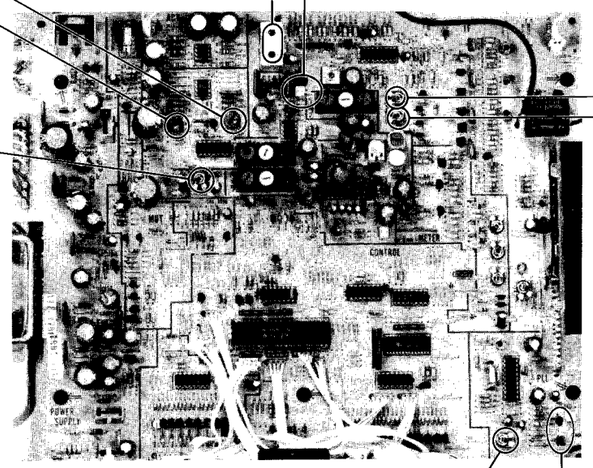
B) Secondary Side

- **Procedure**



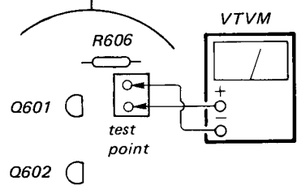
Turn the core (secondary side: Red) of IFT102 for minimum distortion reading on the distortion meter.

Note: Repeat both secondary and primary sides adjustments several times.



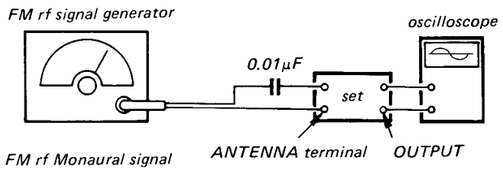
Gate Voltage Adjustment

Adjust RT601 so that gate voltage of Q601 is 1.8V (±0.1V) with 87.5MHz signal tuned.



FM Muting Level Adjustment

Setting:

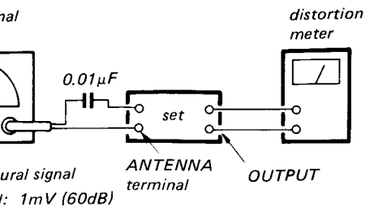


Procedure:

1. Indication: MUTING LOW
2. Tune the set to 98MHz by pressing the TUNING button (+, –) and adjust the output level of signal generator at 22dB (12.6μV).
3. Turn RT102 (WIDE) at the position where the waveform suddenly appears on the oscilloscope. Turn RT101 (NARROW) at the position where the waveform suddenly appears on the oscilloscope.

dary Side

ure

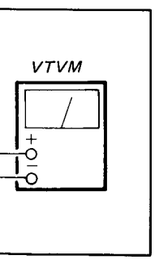


ore (secondary side: Red) of IFT102 for distortion reading on the distortion

at both secondary and primary sides adjustments al times.

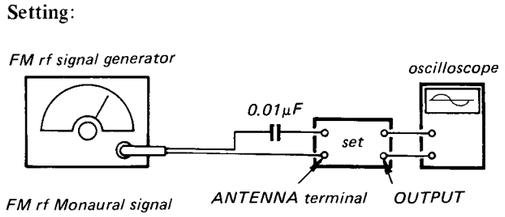
RT101

RT102



FM Muting Level Adjustment

Setting:



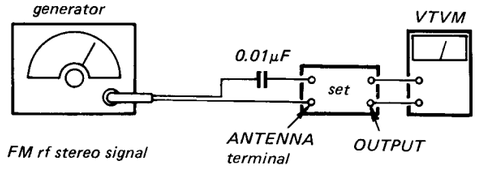
Output level: 12.6μV (22dB)

Procedure:

1. Indication: MUTING LOW
2. Tune the set to 98MHz by pressing the TUNING button (+, –) and adjust the output level of signal generator at 22dB (12.6μV).
3. Turn RT102 (WIDE) at the position where the waveform suddenly appears on the oscilloscope. Turn RT101 (NARROW) at the position where the waveform suddenly appears on the oscilloscope.

Stereo Separation Adjustment

Procedure:



Carrier frequency: 98MHz
Output level: 1mV (60dB)
Mode: Stereo

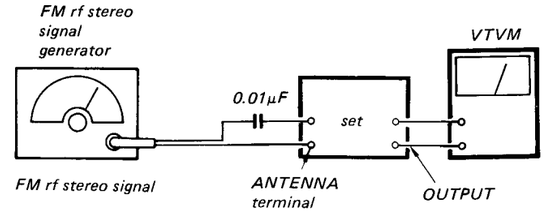
FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT201 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT251 for minimum reading.

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

The separations of both channels should be equal.

Pilot Cancel Adjustment

Procedure:

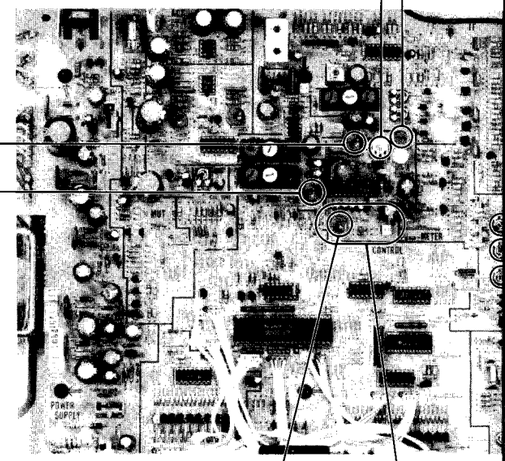


1. Repe MUT
2. Turn (+, – of th
3. Adju on t shou

RT202 L201

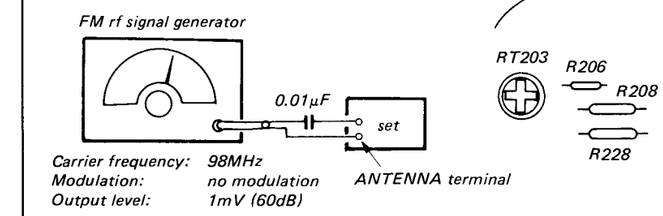
RT201

RT251



VCO Adjustment

Setting:



Carrier frequency: 98MHz
Modulation: no modulation
Output level: 1mV (60dB)

Procedure:

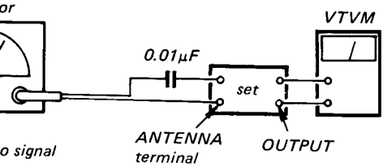
Adjust RT203 for 76kHz ±1000Hz on the counter.

paration Adjustment

:

tereo

or



o signal

uency: 98MHz
l: 1mV (60dB)
Stereo

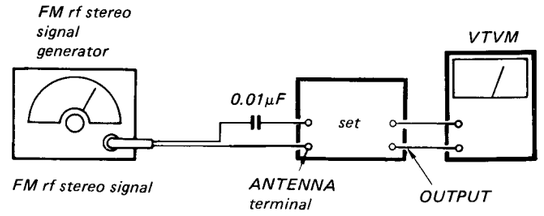
M stereo al generator put channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT201 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT251 for minimum reading.

Stereo separation: Ⓐ – Ⓑ
Stereo separation: Ⓒ – Ⓓ

separations of both channels should be .

Pilot Cancel Adjustment

Procedure:

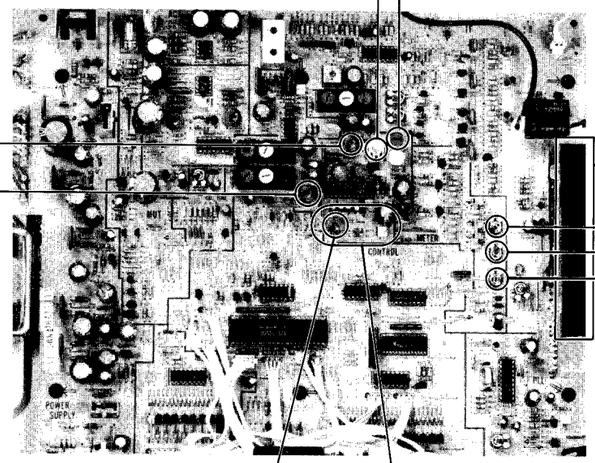


1. Repeat pressing the MUTING button until MUTING LOW indicator lights up.
2. Turn the set to 83MHz by pressing the TUNING (+, –) button and turn OFF the audio modulation of the FM stereo signal generator.
3. Adjust RT202 and L201 for minimum reading on the VTVM. Output level of both channels should be equal.

RT202 L201

RT201

RT251

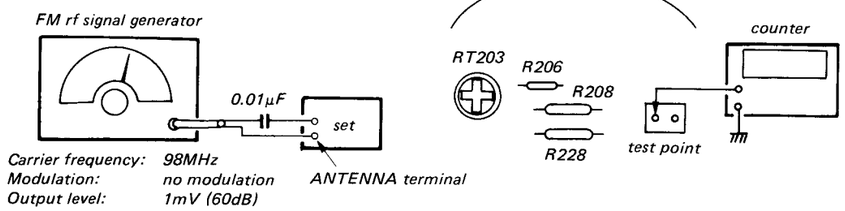


RT301
RT302
RT303

RT203 test point

VCO Adjustment

Setting:



Procedure:

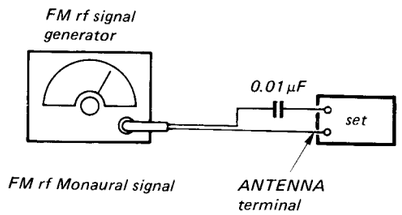
Adjust RT203 for 76kHz ±1000Hz on the counter.

Servicing Precaution

The front-end section has been carefully adjusted at the factory. When it is worn out, be sure to exchange it all with new section, because it is difficult to repair.

Signal Meter Level Adjustment

Setting:

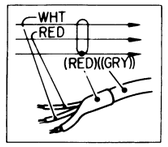


1. Turn RT301 – 303 fully counterclockwise.
2. Set the output of FM signal generator to 55dB (562μV). Adjust RT303 so that the 1 – 5 LEDs conduct on the signal meter.
3. Set the output of FM signal generator to 55dB (562μV). Adjust RT302 so that the 1 – 6 LEDs conduct on the signal meter.
4. Set the output of FM signal generator to 80dB (10mV). Adjust RT301 so that the 1 – 10 LEDs conduct on the signal meter.

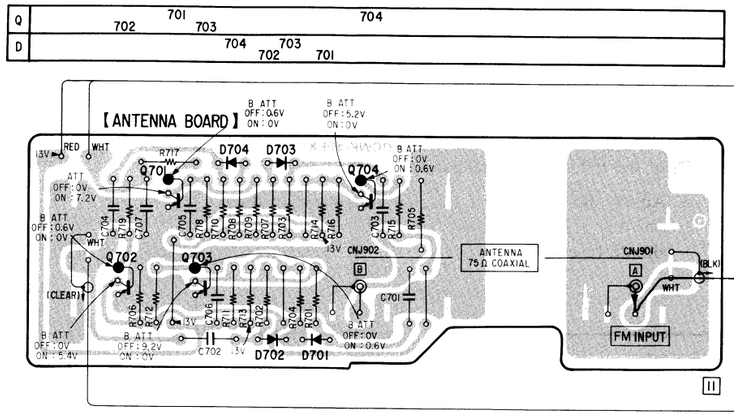
4-1. MOUNTING DIAGRAM

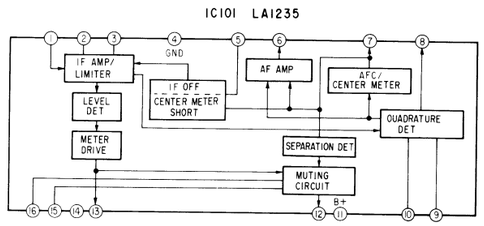
Note:

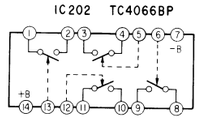
- Color code of sleeving over the end of the jacket.

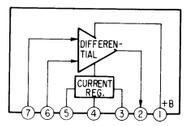


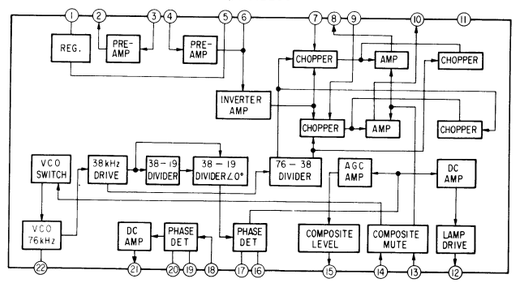
- ○— : parts extracted from the component side.
- [ ]— : indicates side identified with part number.
- ▒▒ : B+ pattern
- ▬▶ : signal path
- ▬▪▶ : L-CH signal path
- ▬··▶ : R-CH signal path

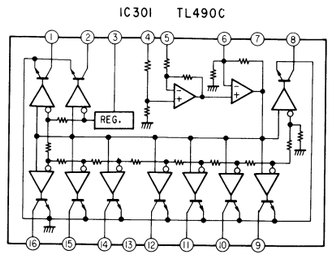


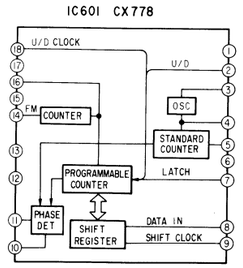






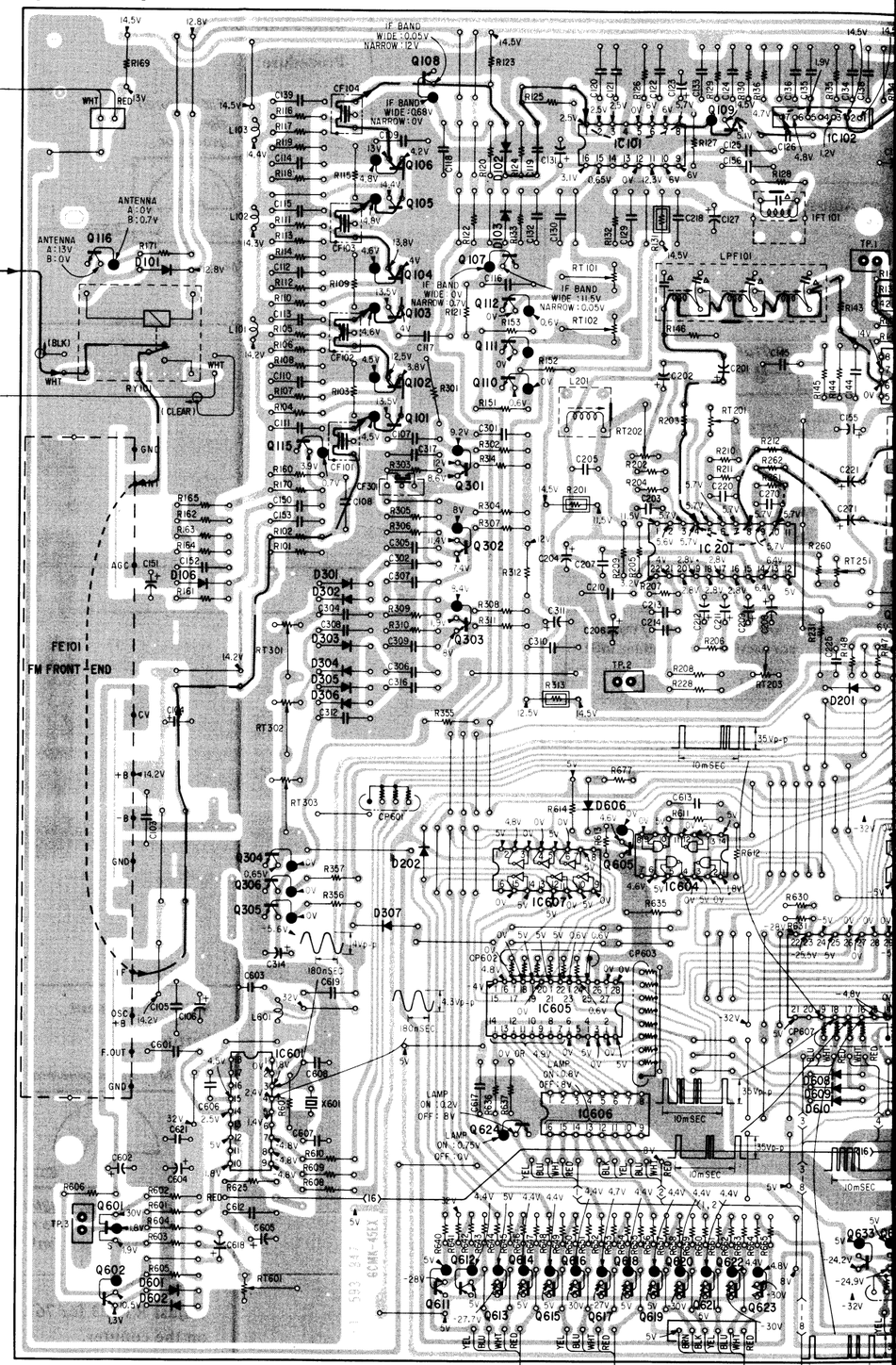


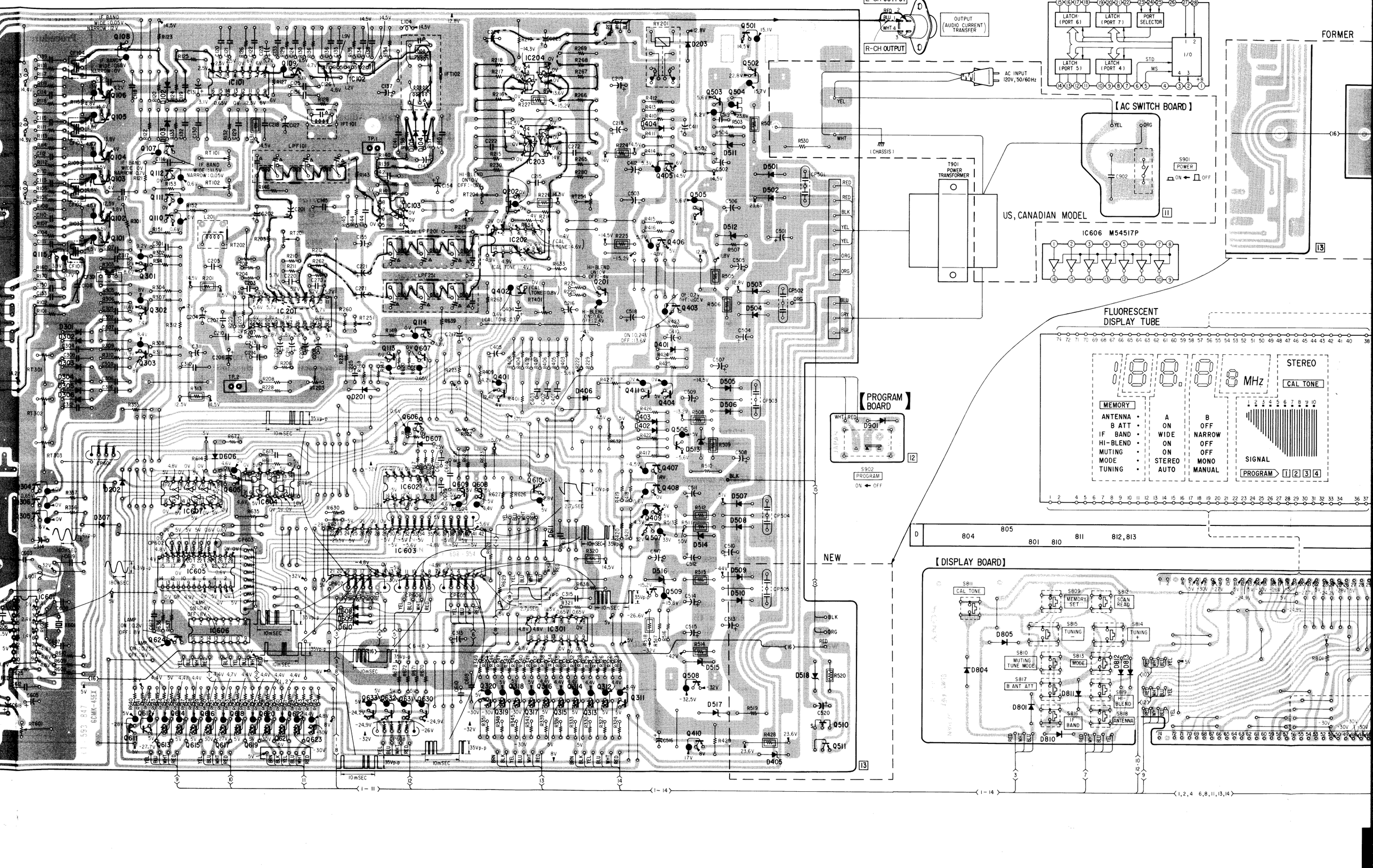




Q・IC	D
501	203
108	
IC102	
109	502
IC204	
IC101	102
106	
503,504	
105	
	103 404
IC203	105,104
116	511
104 107	101
112	405 501
103	
111	502
IC103	202,505
102,110	
101	IC202 406 512
115	
301	
402,201	503
302 403	504
IC201	
114	106 301
	302 401
303 113,607	
	303
401,411,404	304 505
	305 201
	306 406
606	506
	403
506	402
	607 513
	606
605	407
IC604 IC602	
304	408 202
609,608,610	
306 IC607	409 507
305	307 508
507	514
IC603	611
IC605	516,509
509	510
	608
	609
IC601 IC606 IC301	610
624	
	515
	518
508	
601 311-320	
630-633	517
611-623	510
602	601
410,511	602
	405

【TUNER BOARD】




L-CH OUTPUT
R-CH OUTPUT
OUTPUT (AUDIO CURRENT) TRANSFER
AC INPUT 120V, 50/60Hz
IC605 TMS1024N2L
LATCH (PORT 6)
LATCH (PORT 7)
PORT SELECTOR
LATCH (PORT 5)
LATCH (PORT 4)
I/O
STD
MS
FORMER
【AC SWITCH BOARD】
S901 POWER
T901 POWER TRANSFORMER
US, CANADIAN MODEL
IC606 M54517P
FLUORESCENT DISPLAY TUBE
8 MHz
STEREO
CAL TONE
MEMORY
ANTENNA
B ATT
IF BAND
HI-BLEND
MUTING
MODE
TUNING
A ON WIDE ON ON STEREO AUTO
B OFF NARROW OFF OFF MONO MANUAL
SIGNAL
PROGRAM 1 2 3 4
【PROGRAM BOARD】
S902 PROGRAM
【DISPLAY BOARD】
S811 CAL TONE
S809 MEMORY SET
S812 SCAN READ
S815 TUNING −
S814 TUNING +
S810 MUTING TUNE MODE
S813 MODE
S817 B ANT ATT
S819 HI-BLEND
S816 IF BAND
S818 ANTENNA
NEW
IC601
IC602
IC603
IC604
IC605
IC606
IC607
IC101
IC102
IC103
IC201
IC202
IC203
IC204
IC301
IF BAND WIDE :0.05V NARROW :12V
IF BAND WIDE :0.68V NARROW :0V
IF BAND WIDE :11.5V NARROW :0.05V
IF BAND WIDE :0V NARROW :0.7V
LAMP ON :0.2V OFF :8V
LAMP ON :0.75V OFF :0V
HI-BLEND ON :0V OFF :−5V
HI-BLEND ON :0V OFF :2.4V
(CAL TONE :4.6V)
(CAL TONE :4.9V)
(CAL TONE :0.8V)
(CAL TONE :0.3V)
ON :0.24V OFF :3.6V
ON :0.7V OFF :0.05V
10mSEC
35Vp-p
180mSEC
27μSEC
(CHASSIS)
(16)
(6−8)
(10)
(12)
(1−11)
(1−14)
(1,2,4 6,8,11,13,14)
11
12
13

S T U V W X Y Z A1 B1 C1 D1 E1 F1 G1 H1 I1

1 2 3 4 5 6 7 8 9 10

L-CH OUTPUT
R-CH OUTPUT
OUTPUT (AUDIO CURRENT TRANSFER)
AC INPUT 120V, 50/60Hz
(CHASSIS)
T901 POWER TRANSFORMER
US, CANADIAN MODEL

IC605 TMS1024N2L
LATCH (PORT 6)
LATCH (PORT 7)
PORT SELECTOR
LATCH (PORT 5)
LATCH (PORT 4)
I/O
STD
MS

【AC SWITCH BOARD】
S901 POWER ON ← OFF

FORMER

IC606 M54517P

IC603 μPD553C-225
UP/DOWN COUNTER
DATA POINT (L)
DATA POINT (H)
R&M BUFFER
R&M DECODER
R&M 64×4
ARITHMETIC LOGIC UNIT
CARRY F/F
ACCUMULATOR
ROM 1000×8
PROGRAM COUNTER
STACK
CLOCK GENERATOR
CONTROL & DECODE
IFT F/F
I/O INTERFACE
RES INT

IC602 CX761A
ADDRES DECODER
STATION LAST CHANNEL
LAST CHANNEL MEMORY (14BITS)
STATION MEMORY (14WORDS×16BITS)
CONTROL LOGIC
DATA REGISTER (16BITS)
MODE DECODER
CLOCK GENERATOR
I/O CONTROL

FLUORESCENT DISPLAY TUBE
MEMORY
ANTENNA
B ATT
IF BAND
HI-BLEND
MUTING
MODE
TUNING
A: ON WIDE ON ON STEREO AUTO
B: OFF NARROW OFF OFF MONO MANUAL
8 MHz
STEREO
CAL TONE
SIGNAL
PROGRAM 1 2 3 4

【PROGRAM BOARD】
S902 PROGRAM ON ← OFF

NEW

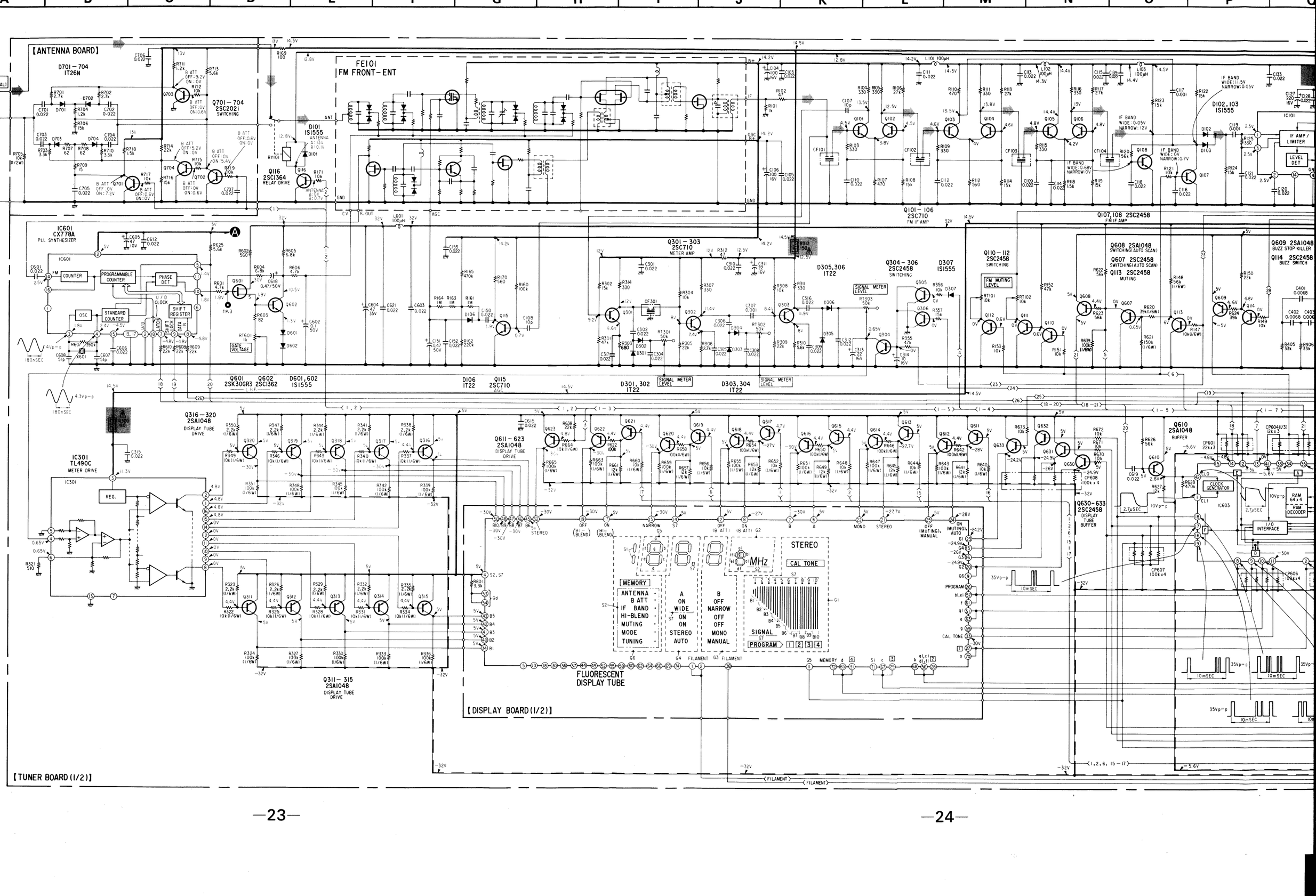
AEP MODEL
UK MODEL
AC INPUT 220/240V~ 50/60Hz
【AC SWITCH BOARD】
S901 POWER ON ← OFF
T901 POWER TRANSFORMER
AEP, UK MODEL

【DISPLAY BOARD】
S811 CAL TONE
S809 MEMORY SET
S812 SCAN READ
S815 TUNING −
S814 TUNING +
S810 MUTING TUNE MODE
S813 MODE
S817 B ANT ATT
S819 HI-BLEND
S816 IF BAND
S818 ANTENNA
S805 S806 S807 S808
PL805 PL806 PL807 PL808
S801 S802 S803 S804
PL801 PL802 PL803 PL804

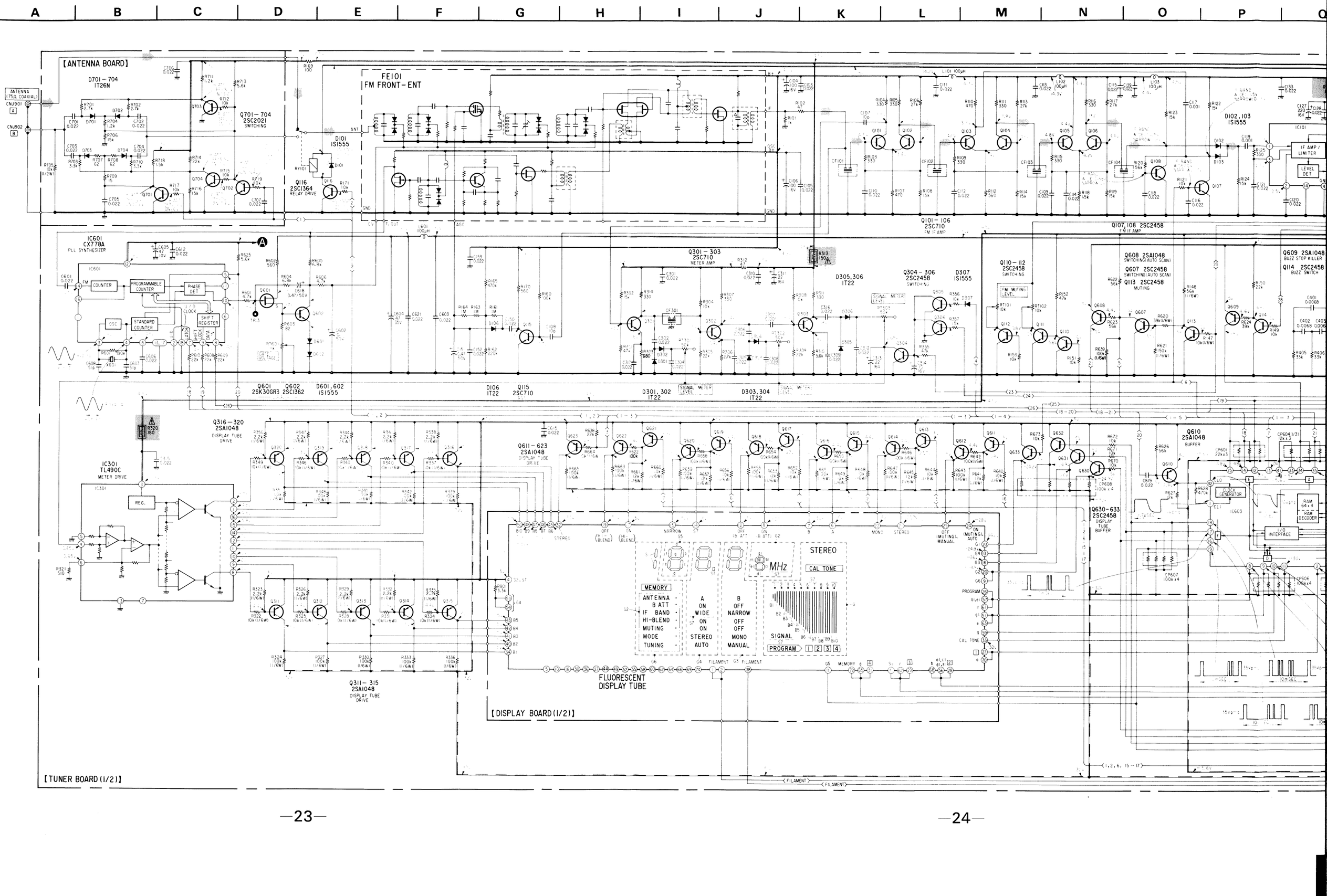
D 804 805 801 810 811 812,813 806,807 808,809 803 802 D

4-2. SCHEMATIC DIAGRAM

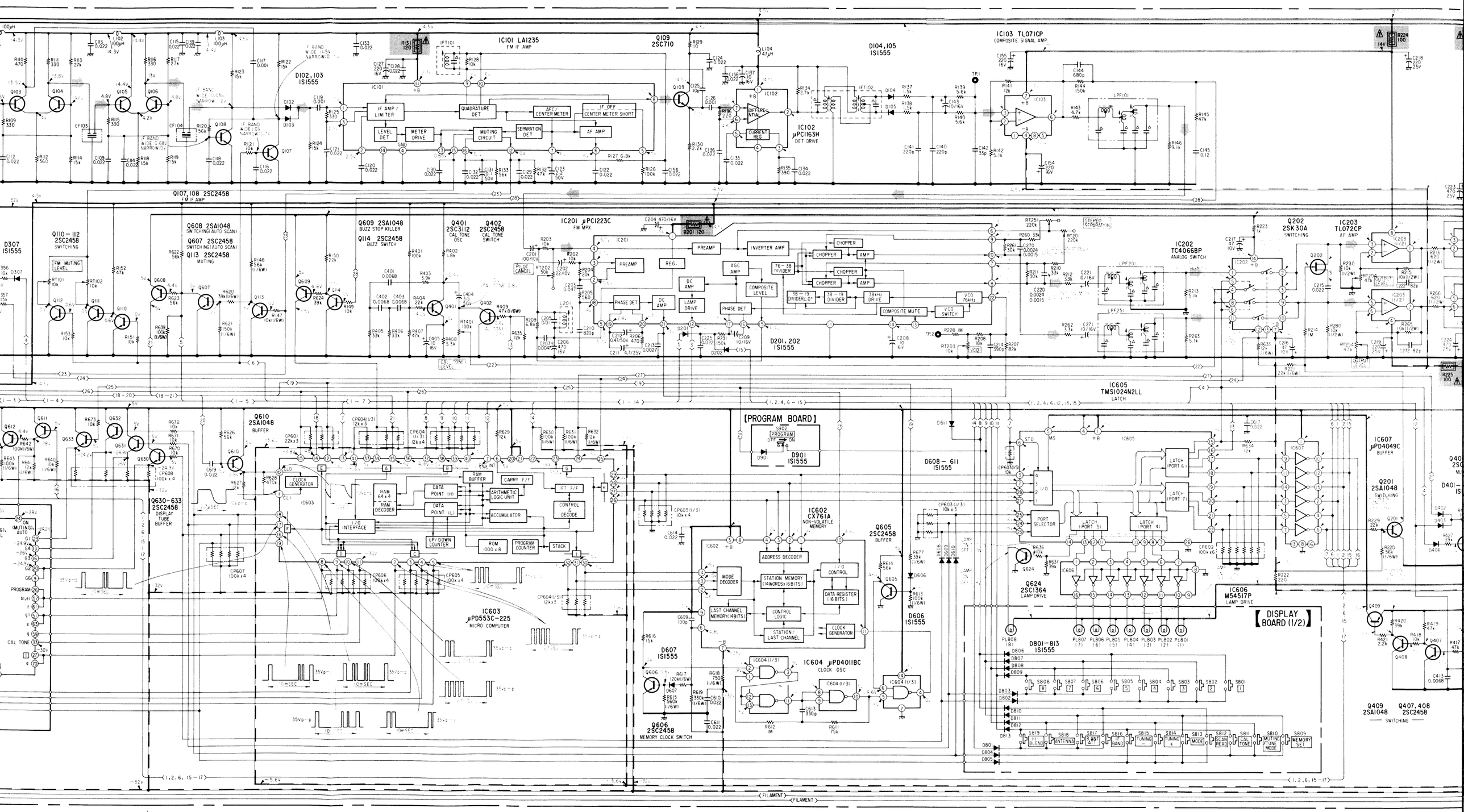
• Refer to page 28 for note.



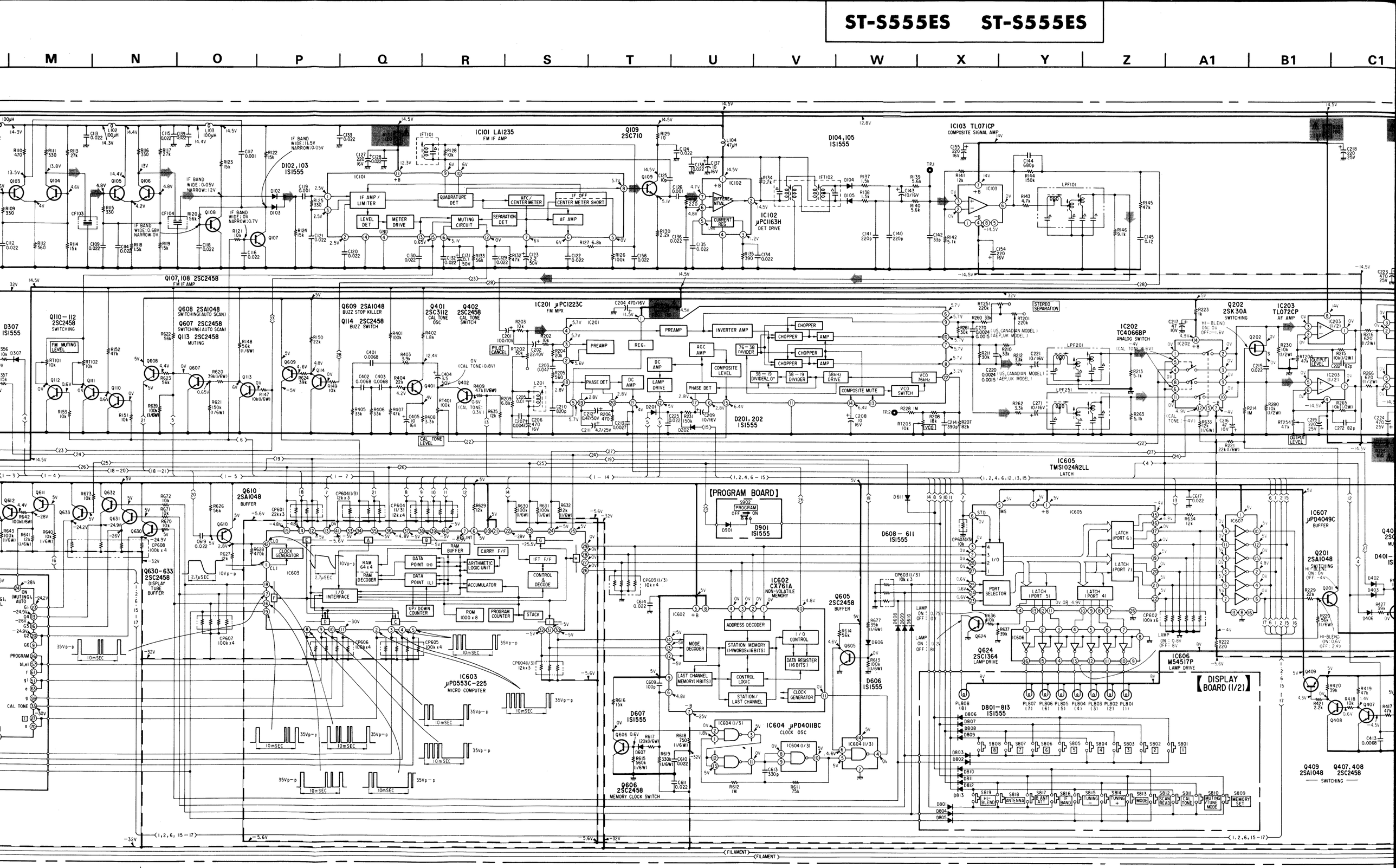
4-2. SCHEMATIC DIAGRAM • Refer to page 28 for note.

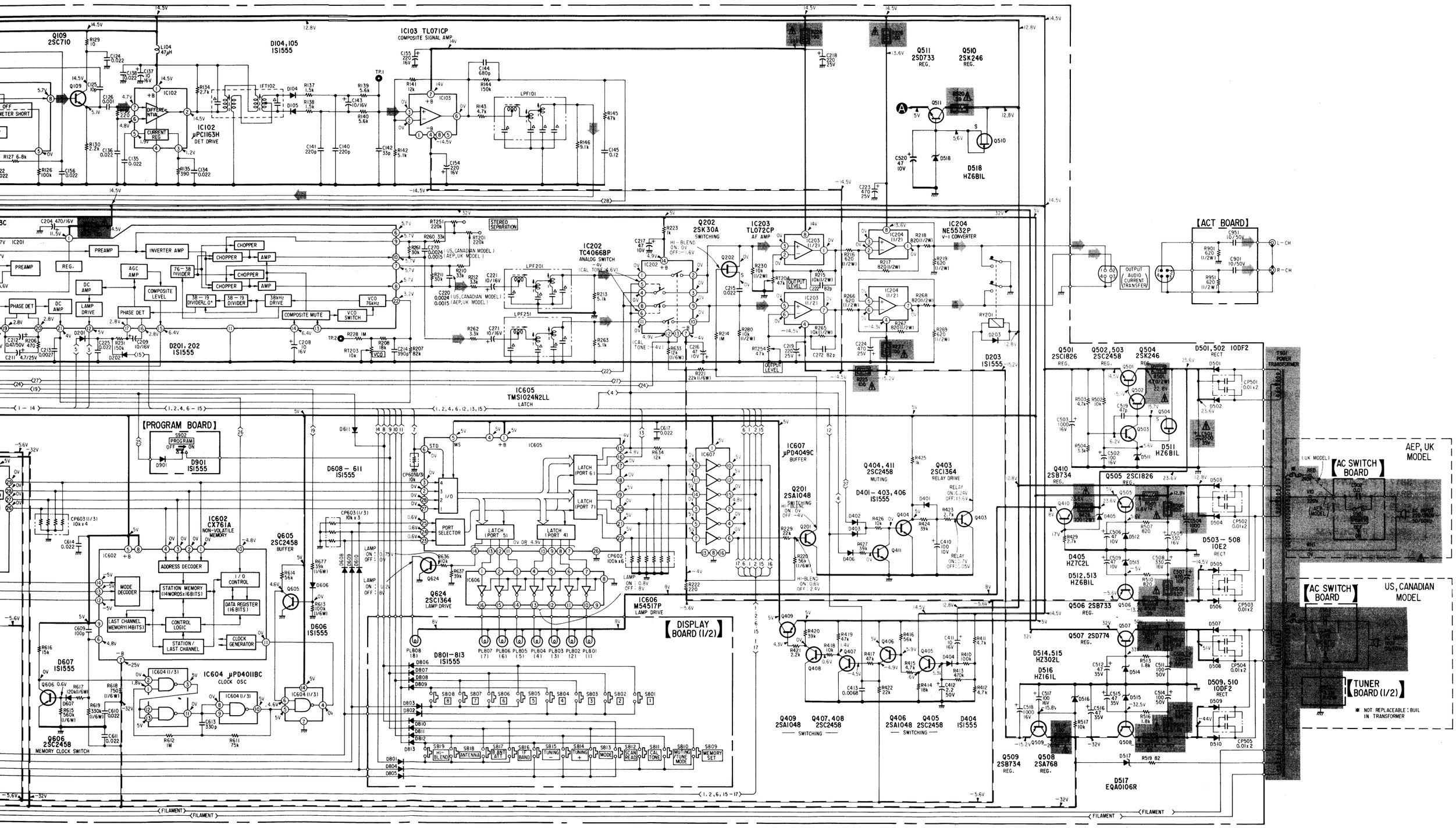


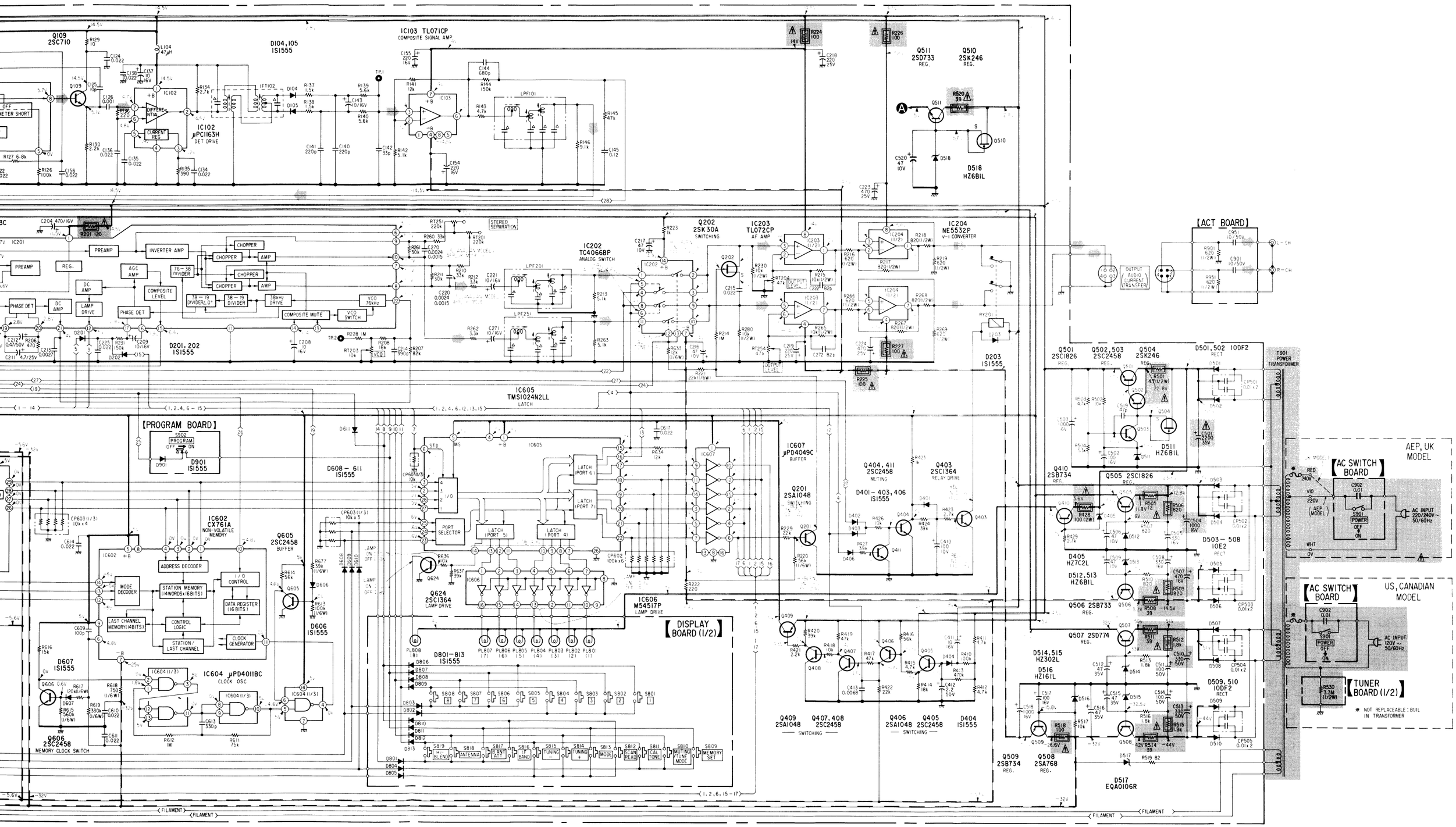
M N O P Q R S T U V W X Y Z A1 B1 C1



M N O P Q R S T U V W X Y Z A1 B1 C1




T
U
V
W
X
Y
Z
A1
B1
C1
D1
E1
F1
G1
H1
I1
J1
1
2
3
4
5
6
7
8
9
10
Q109 2SC710
IC102 μPC1163H DET DRIVE
DIFFERENTIAL AMP
CURRENT REG
DIO4, IO5 1S1555
IC103 TL071CP COMPOSITE SIGNAL AMP.
LPF101
Q511 2SD733 REG.
Q510 2SK246 REG.
D518 HZ6BIL
IC202 TC4066BP ANALOG SWITCH
Q202 2SK30A SWITCHING
IC203 TL072CP AF AMP
IC204 NE5532P V-I CONVERTER
STEREO SEPARATION
LPF201
LPF251
PREAMP
REG.
INVERTER AMP
CHOPPER
AMP
AGC AMP
76-38 DIVIDER
38-19 DIVIDER
38kHz DRIVE
DC AMP
LAMP DRIVE
PHASE DET
COMPOSITE LEVEL
COMPOSITE MUTE
VCO SWITCH
VCO 76kHz
D201, 202 1S1555
D203 1S1555
RY201
OUTPUT AUDIO (CURRENT TRANSFER)
【ACT BOARD】
L-CH
R-CH
IC605 TMS1024N2LL LATCH
【PROGRAM BOARD】
S902 PROGRAM OFF ON
D901 1S1555
D608 – 611 1S1555
IC602 CX761A NON-VOLATILE MEMORY
ADDRESS DECODER
MODE DECODER
STATION MEMORY (14WORDS×16BITS)
I/O CONTROL
DATA REGISTER (16BITS)
LAST CHANNEL MEMORY(4BITS)
CONTROL LOGIC
STATION / LAST CHANNEL
CLOCK GENERATOR
Q605 2SC2458 BUFFER
D606 1S1555
D607 1S1555
IC604 μPD4011BC CLOCK OSC
Q606 2SC2458 MEMORY CLOCK SWITCH
I/O
PORT SELECTOR
LATCH (PORT 5)
LATCH (PORT 4)
LATCH (PORT 6)
LATCH (PORT 7)
IC606 M54517P LAMP DRIVE
Q624 2SC1364 LAMP DRIVE
【DISPLAY BOARD (1/2)】
D801–813 1S1555
S801 1
S802 2
S803 3
S804 4
S805 5
S806 6
S807 7
S808 8
S809 MEMORY SET
S810 MULTI/NOT TUNE MODE
S811 CAL. TONE
S812 SCAN/READ
S813 MODE
S814 TUNING +
S815 TUNING –
S816 FT BAND
S817 ANT/ATT
S818 ANTENNA
S819 HI-BLEND
IC607 μPD4049C BUFFER
Q201 2SA1048 SWITCHING
Q404, 411 2SC2458 MUTING
Q403 2SC1364 RELAY DRIVE
D401–403, 406 1S1555
Q409 2SA1048 — SWITCHING —
Q407, 408 2SC2458
Q406 2SA1048 — SWITCHING —
Q405 2SC2458
D404 1S1555
Q501 2SC1826 REG.
Q502, 503 2SC2458 REG.
Q504 2SK246 REG.
D501, 502 10DF2 RECT
T901 POWER TRANSFORMER
D511 HZ6BIL
Q410 2SB734 REG.
Q505 2SC1826 REG.
D503 – 508 10E2 RECT
D405 HZ7C2L
D512, 513 HZ6BIL
Q506 2SB733 REG.
Q507 2SD774 REG.
D514, 515 HZ30ZL
D516 HZ16IL
D509, 510 10DF2 RECT
Q509 2SB734 REG.
Q508 2SA768 REG.
D517 EQA0106R
AEP, UK MODEL
【AC SWITCH BOARD】
(UK MODEL)
US, CANADIAN MODEL
【TUNER BOARD (1/2)】
※ NOT REPLACEABLE : BUILT IN TRANSFORMER
FILAMENT
FILAMENT
FILAMENT
FILAMENT


T
U
V
W
X
Y
Z
A1
B1
C1
D1
E1
F1
G1
H1
I1
J1
1
2
3
4
5
6
7
8
9
10
Q109 2SC710
IC103 TL071CP COMPOSITE SIGNAL AMP.
D104,105 1S1555
IC102 μPC1163H DET DRIVE
Q511 2SD733 REG.
Q510 2SK246 REG.
D518 HZ6BIL
【ACT BOARD】
OUTPUT AUDIO CURRENT TRANSFER
L-CH
R-CH
PREAMP
REG.
INVERTER AMP
CHOPPER
AMP
AGC AMP
DC AMP
LAMP DRIVE
PHASE DET
76-38 DIVIDER
38-19 DIVIDER/LOW
38-19 DIVIDER
38kHz DRIVE
COMPOSITE LEVEL
COMPOSITE MUTE
VCO 76kHz
VCO SWITCH
D201, 202 1S1555
IC202 TC4066BP ANALOG SWITCH
Q202 2SK30A SWITCHING
IC203 TL072CP AF AMP
IC204 NE5532P V-I CONVERTER
STEREO SEPARATION
LPF201
LPF251
OUTPUT LEVEL
D203 1S1555
Q501 2SC1826 REG.
Q502,503 2SC2458 REG.
Q504 2SK246 REG.
D501,502 10DF2 RECT
T901 POWER TRANSFORMER
【PROGRAM BOARD】
S902 PROGRAM OFF ON
D901 1S1555
D608-611 1S1555
IC605 TMS1024N2LL LATCH
IC607 μPD4049C BUFFER
Q201 2SA1048 SWITCHING
Q404,411 2SC2458 MUTING
Q403 2SC1364 RELAY DRIVE
D401-403,406 1S1555
Q410 2SB734 REG.
Q505 2SC1826 REG.
D503-508 10E2 RECT
D405 HZ7C2L
D512,513 HZ6BIL
Q506 2SB733 REG.
Q507 2SD774 REG.
D514,515 HZ30ZL
D516 HZ16L
D509,510 10DF2 RECT
Q509 2SB734 REG.
Q508 2SA768 REG.
D517 EQA0106R
AEP, UK MODEL
【AC SWITCH BOARD】
US, CANADIAN MODEL
【TUNER BOARD (1/2)】
* NOT REPLACEABLE : BUILT IN TRANSFORMER
IC602 CX761A NON-VOLATILE MEMORY
ADDRESS DECODER
MODE DECODER
STATION MEMORY (14WORDSx16BITS)
I/O CONTROL
DATA REGISTER (16BITS)
LAST CHANNEL MEMORY(14BITS)
CONTROL LOGIC
STATION / LAST CHANNEL
CLOCK GENERATOR
Q605 2SC2458 BUFFER
D606 1S1555
D607 1S1555
IC604 μPD4011BC CLOCK OSC
Q606 2SC2458 MEMORY CLOCK SWITCH
Q624 2SC1364 LAMP DRIVE
IC606 M54517P LAMP DRIVE
【DISPLAY BOARD (1/2)】
D801-813 1S1555
Q409 2SA1048 SWITCHING
Q407,408 2SC2458 SWITCHING
Q406 2SA1048 SWITCHING
Q405 2SC2458 SWITCHING
D404 1S1555
FILAMENT

NOTE FOR SCHEMATIC DIAGRAM

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- : nonflammable resistor.
- △ : internal component.
- : panel designation.
- : adjustment for repair.
- ——: B+ bus.
- — — —: B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under detuned conditions with a VOM
- Voltage variations may be noted due to normal production tolerances.
- Switch

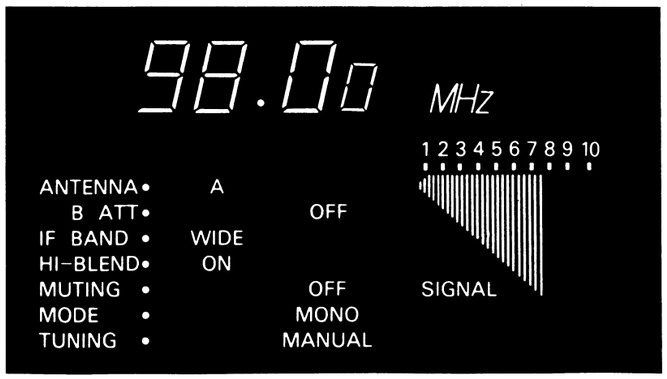
Ref. No.	Switch	Position
S801	PRESET 1	OFF
S802	PRESET 2	OFF
S803	PRESET 3	OFF
S804	PRESET 4	OFF
S805	PRESET 5	OFF
S806	PRESET 6	OFF
S807	PRESET 7	OFF
S808	PRESET 8	OFF
S809	MEMORY SET	OFF
S810	MUTING/TUNE MODE	OFF
S811	CAL TONE	OFF
S812	SCAN READ	OFF
S813	MODE	OFF
S814	TUNING (+)	OFF
S815	TUNING (–)	OFF
S816	IF BAND	OFF
S817	B ANT ATT	OFF
S818	ANTENNA	OFF
S819	HI-BLEND	OFF
S901	POWER	OFF
S902	PROGRAM	OFF

- : signal path

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Voltages are measured with a VOM (50kΩ/V).

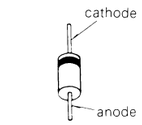
- **Fluorescent tube indication**



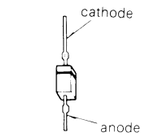
- Voltage and waveform have been measured under condition shown above.

SEMICONDUCTOR LEAD LAYOUTS

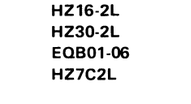
10DF2
1S1555
1T22AM
1T261
10E-2
HZ6B1L
HZ16-2L
HZ30-2L
EQB01-06
HZ7C2L



1S2222

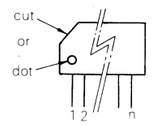


LA1235
TL071CP
TL072CP
NE5532P
CX778A
CX761A
TC4066BP
TL490C
TMS1024N2L
M5417P
μPC1223C
μPD4011BC
μPD4049C
μPD553C225



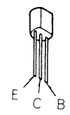
(Top view)

μPC1163H



2SK30A
2SK30A-GR3
2SK246

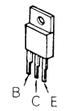
2SC1362-48
2SC1364
2SC3112



2SC710-14

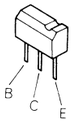
2SA1048
2SC2458

2SA768
2SA771
2SC1826
2SC1983
2SC1986
2SC2315

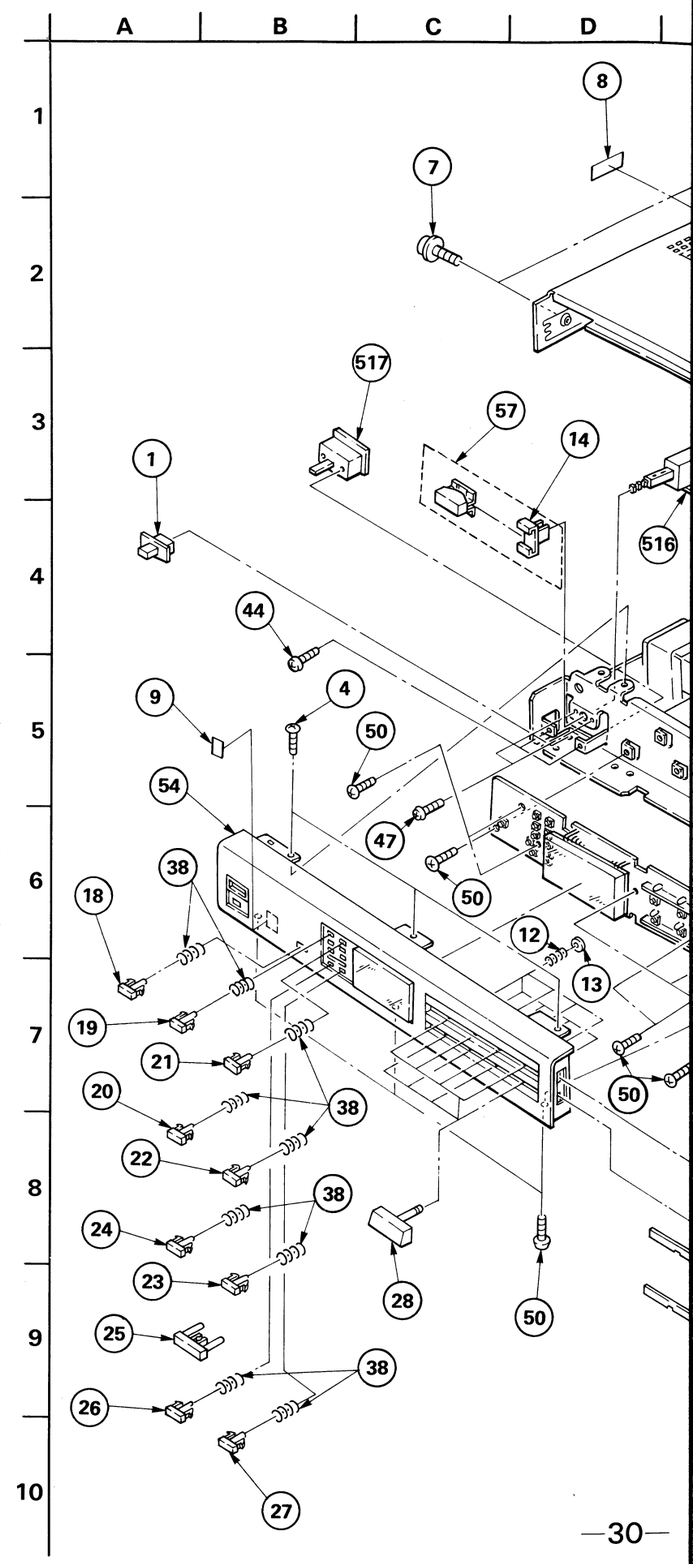


2SB733
2SB734
2SD744
2SD774

2SC2021



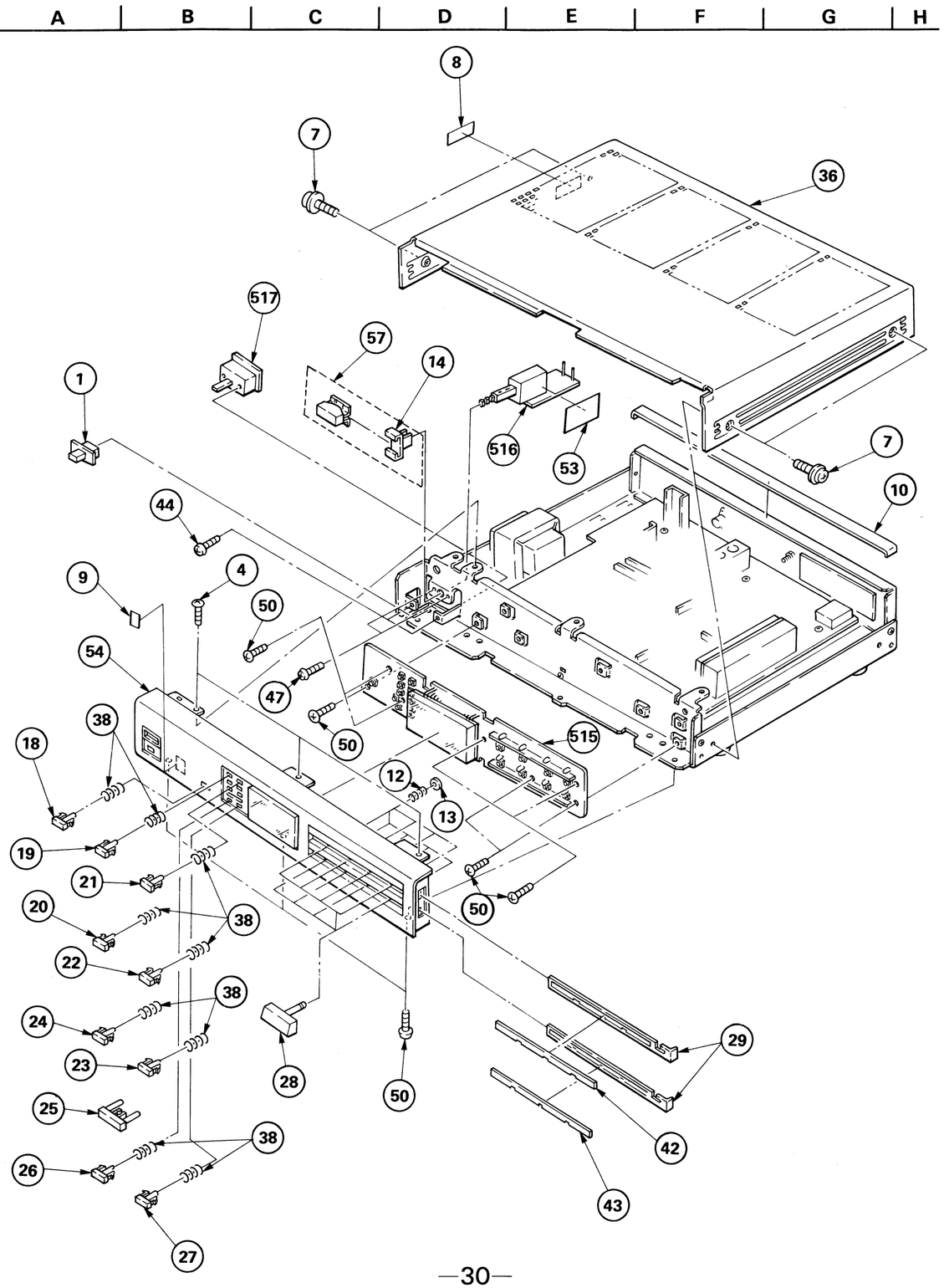
SECTIO
EXPLODED VIEWS AND E

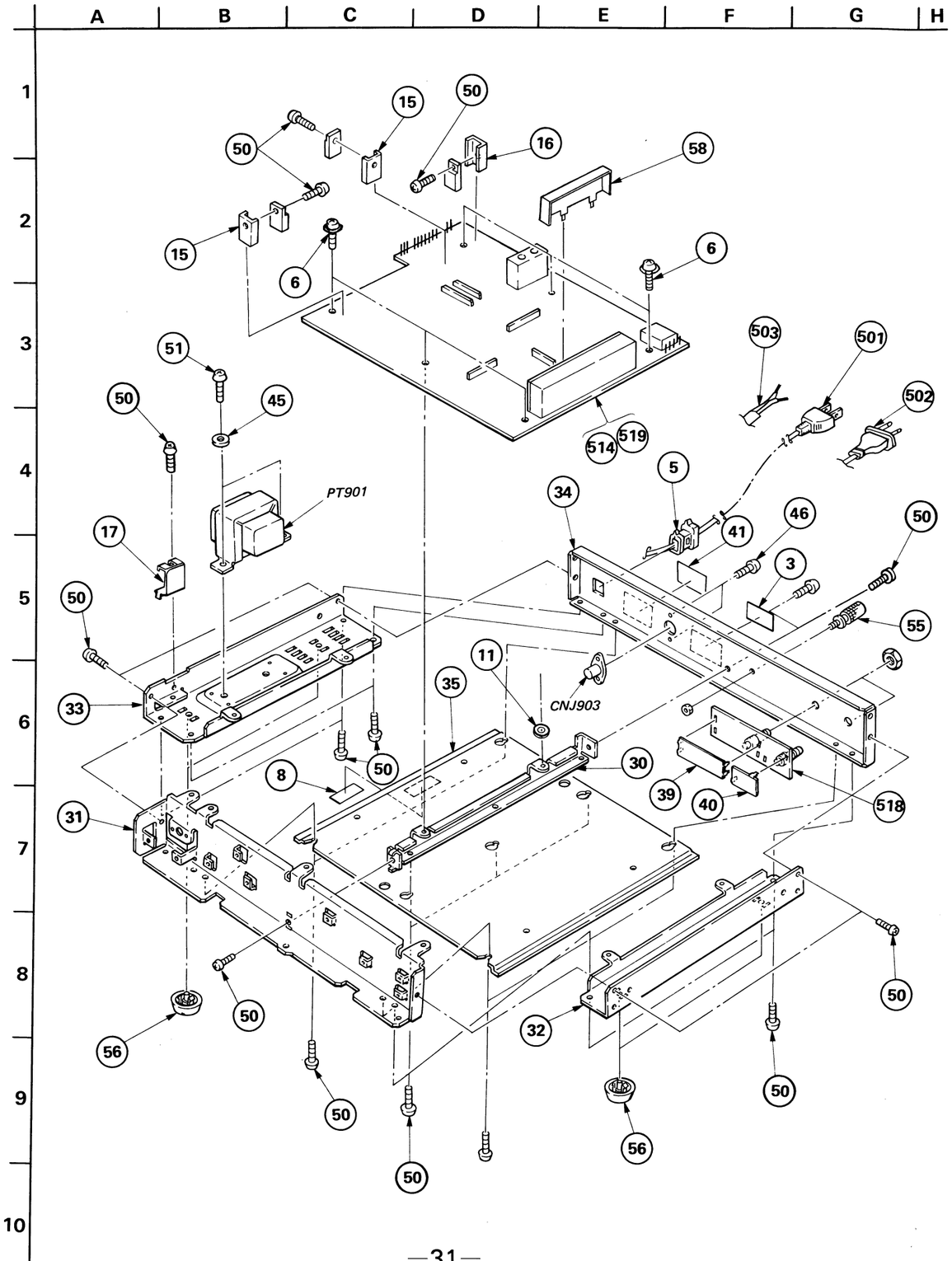


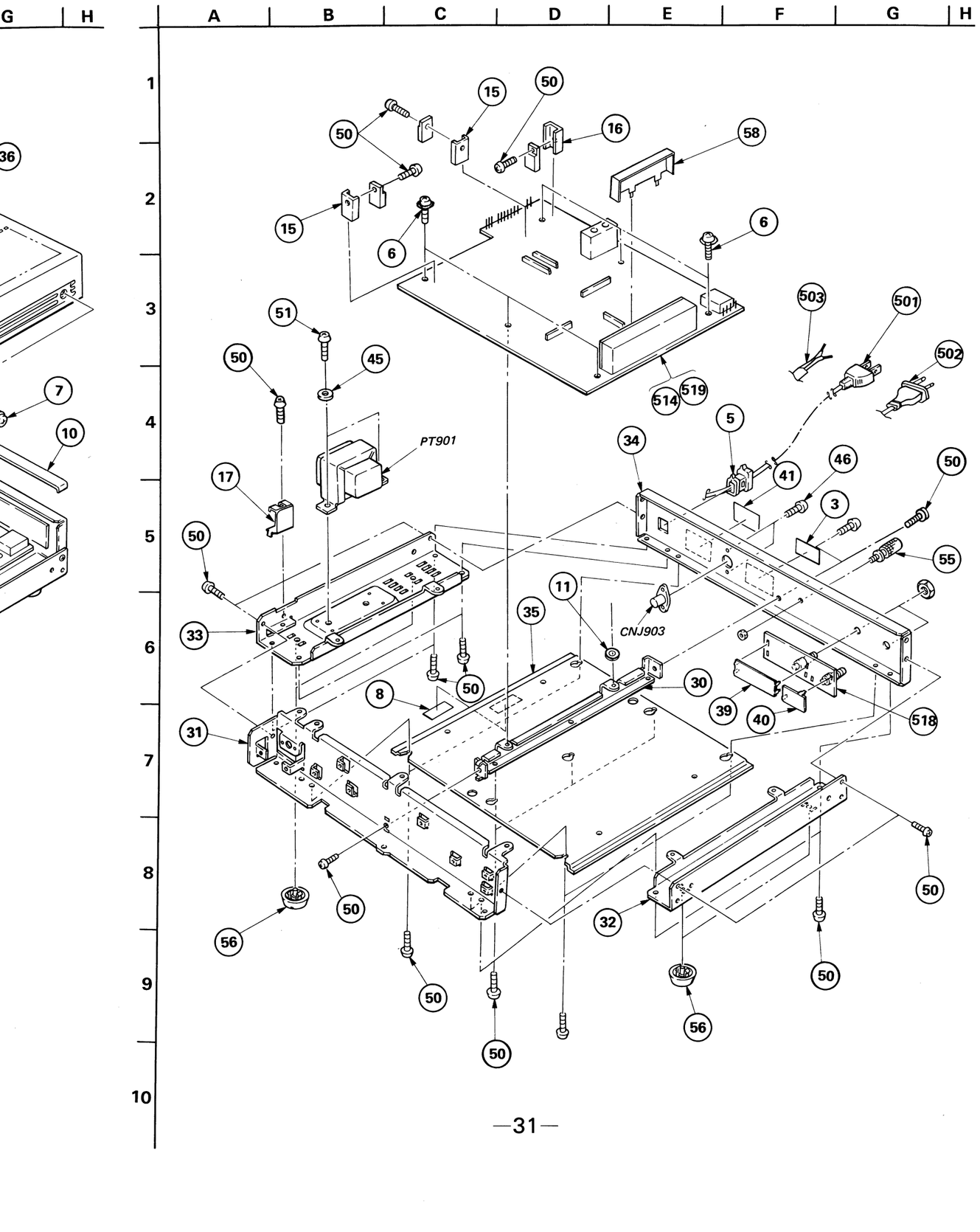
768
771
1826
1983
1986
2315

733
734
744
774

2021







GENERAL SECTION

No.	Part No.	Description
1	3-575-515-21	KNOB, SLIDE SWITCH
2	3-701-690-11	(UK).....LABEL, MADE IN JAPAN
3 ♦	3-703-043-21	(Canadian)...LABEL, CAUTION, MAIN, NEW UL
3 ♦	3-703-677-00	(US).....LABEL, CAUTION, MAIN, NEW UL
4	3-703-108-21	SCREW +BV 3X6, S TIGHT
5	3-703-244-00	BUSHING, CORD
6	3-703-249-11	SCREW, S TIGHT, +PTTWH 3X6
7	3-703-354-01	SCREW (OS), CASE, CLAW
8 ♦	3-703-680-00	(US)...LABEL, CAUTION, SUB, NEW UL
9	3-703-710-41	STICKER, SONY SYMBOL (12)
10	3-831-441-XX	CUSHION, SPEAKER
11 ♦	4-830-092-11	WASHER, FIVER
12	4-854-743-00	SPRING, COMPRESSION
13	4-862-338-01	WASHER
14	4-866-342-00	JOINT (B), KNOB
15 ♦	4-866-647-00	HEAT SINK
16 ♦	4-880-403-00	HEAT SINK
17 ♦	4-884-808-00	(AEP,UK).....PROTECTOR
18	4-886-001-00	KNOB (A), SQUARE (CAL TONE)
19	4-886-002-02	KNOB (B), SQUARE (ANTENNA)
20	4-886-002-12	KNOB (B), SQUARE (B ANT ATT)
21	4-886-002-22	KNOB (B), SQUARE (IF BAND)
22	4-886-002-32	KNOB (B), SQUARE (HI-BLEND)
23	4-886-002-42	KNOB (B), SQUARE (MODE)
24	4-886-002-52	KNOB (B), SQUARE (MUTING/TUNE MODE)
25	4-886-003-00	KNOB, TUNING
26	4-886-004-02	KNOB (C), SQUARE (MEMORY SET)
27	4-886-004-12	KNOB (C), SQUARE (SCAN READ)
28	4-886-005-00	KNOB, PRESET
29	4-886-014-00	HOLDER, INDICATOR
30 ♦	4-886-015-00	REINFORCEMENT
31 ♦	4-886-021-00	PANEL, SUB
32 ♦	4-886-022-00	CHASSIS (LEFT)
33 ♦	4-886-023-00	CHASSIS (RIGHT)
34	4-886-024-00	PLATE, JACK
35 ♦	4-886-025-00	PLATE, BOTTOM
36	4-886-026-00	CASE
37	4-886-031-00	CHIP, ADHESIVE
38	4-886-032-00	SPRING, COMPRESSION
39 ♦	4-886-033-00	PLATE (A), SHIELD
40 ♦	4-886-034-00	PLATE, SHIELD (B)
41	4-886-038-00	(US).....LABEL, MODEL NUMBER (U)
41	4-886-039-00	(Canadian)...LABEL, MODEL NUMBER
41	4-886-040-00	(AEP).....LABEL, MODEL NUMBER
41	4-886-041-00	(UK).....LABEL, MODEL NUMBER

GENERAL SECTION

No.	Part No.	Description
42	4-886-042-00	(AEP,UK).....LABEL (A), INDICATOR
42	4-886-044-00	(US,Canadian)...LABEL (U1), INDICATOR
43	4-886-043-00	(AEP,UK).....LABEL (B), INDICATOR
43	4-886-045-00	(US,Canadian)...LABEL (U2), INDICATOR
44	7-621-775-10	SCREW +B 2.6X4
45	7-623-112-15	W 5, MIDDLE
46	7-682-547-09	SCREW +B 3X6
47	7-682-647-09	SCREW +PS 3X6
48	7-684-023-04	N 3, TYPE 2
49	7-685-871-01	SCREW +BVTT 3X6 (S)
50	7-685-871-09	SCREW +BVTT 3X6 (S)
51	7-685-880-09	SCREW +BVTT 4X6 (S)
52	7-688-003-11	W 3, MIDDLE
53	9-911-863-XX	(AEP,UK).....INSULATOR
54	A-4322-478-A	PANEL ASSY, FRONT
55	X-4854-207-0	TERMINAL ASSY, GROUND
56	X-4864-303-0	FOOT ASSY
57	X-4885-901-0	KNOB ASSY, POWER
58 ♦	4-886-050-00	CASE, SHIELD

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	1-417-090-00	(AEP,UK)....TRANSFORMER, ANTENNA MATCHING
102	1-501-161-00	ANTENNA,FEEDER
103	1-506-305-00	(US,Canadian)...PLUG, F (FP-33)
104	1-513-379-00	(US,Canadian)...CONVERTER (EAC-25)
105	3-701-630-00	BAG, POLYETHYLENE
106	3-703-390-01	(US).....INSTRUCTION
107	3-773-215-11	(Canadian,AEP,UK)...MANUAL, INSTRUCTION
107	3-773-215-21	(US).....MANUAL, INSTRUCTION
107	3-773-215-41	(AEP).....MANUAL, INSTRUCTION
108	4-871-333-00	SHEET, PROTECTION
109	4-875-448-00	CUSHION, UPPER
110	4-875-449-00	CUSHION, LOWER
111	4-886-048-00	INDIVIDUAL CARTON
112	4-886-037-00	SPACER
113	4-886-044-00	(US,Canadian)...LABEL (U1), INDICATOR
114	4-886-045-00	(US,Canadian)...LABEL (U2), INDICATOR
115	4-886-046-00	(AEP,UK).....LABEL (E1), INDICATOR
116	4-886-047-00	(AEP,UK).....LABEL (E2), INDICATOR
117	A-4490-145-A	ACT ASSY (CORD, CONNECTION)

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	⚠1-556-874-00	(US,Canadian)...CORD, POWER
502	⚠1-555-795-00	(AEP).....CORD, POWER
503	⚠1-556-035-00	(UK).....CORD, POWER
504	♦;1-508-811-00	BASE POST (14MM) 4P
505	♦;1-535-116-00	TERMINAL
506	♦;1-535-120-00	TERMINAL
507	♦;1-535-135-00	BASE POST 14MM (10MM PITCH)
508	♦;1-535-416-00	TERMINAL
509	♦;1-560-060-00	PIN, CONNECTOR 2P
510	♦;1-560-062-00	PIN, CONNECTOR 4P
511	♦;1-560-064-00	PIN, CONNECTOR 6P
512	♦;1-560-242-11	BUS BAR 3P
513	♦;1-560-242-61	BUS BAR 2P
514	♦;1-608-954-00	PC BOARD, TUNER
515	♦;1-608-955-00	PC BOARD, DISPLAY
516	♦;1-608-956-00	PC BOARD, AC SW
517	♦;1-608-957-00	PC BOARD, PROGRAM
518	♦;1-608-958-00	PC BOARD, ANTENNA
519	♦;A-4351-350-A	(US,Canadian)...MOUNTED PCB, TUNER
519	♦;A-4351-351-A	(AEP,UK).....MOUNTED PCB, TUNER

C101	1-161-494-00	CERAMIC	0.022MF	30%	25V
C102	1-123-356-00	ELECT	10MF	20%	16V
C103	1-161-494-00	CERAMIC	0.022MF	30%	25V
C104	1-123-320-00	ELECT	100MF	20%	16V
C105	1-161-494-00	CERAMIC	0.022MF	30%	25V
C106	1-123-320-00	ELECT	100MF	20%	16V
C107	1-161-279-00	CERAMIC	10PF	5%	50V
C108	1-161-279-00	CERAMIC	10PF	5%	50V
C109	1-161-494-00	CERAMIC	0.022MF	30%	25V
C110	1-161-494-00	CERAMIC	0.022MF	30%	25V
C111	1-161-494-00	CERAMIC	0.022MF	30%	25V
C112	1-161-494-00	CERAMIC	0.022MF	30%	25V
C113	1-161-494-00	CERAMIC	0.022MF	30%	25V
C114	1-161-494-00	CERAMIC	0.022MF	30%	25V
C115	1-161-494-00	CERAMIC	0.022MF	30%	25V
C116	1-161-494-00	CERAMIC	0.022MF	30%	25V
C117	1-161-323-00	CERAMIC	0.001MF	10%	50V
C118	1-161-494-00	CERAMIC	0.022MF	30%	25V
C119	1-161-323-00	CERAMIC	0.001MF	10%	50V
C120	1-161-494-00	CERAMIC	0.022MF	30%	25V
C121	1-161-494-00	CERAMIC	0.022MF	30%	25V
C122	1-161-494-00	CERAMIC	0.022MF	30%	25V
C123	1-123-353-00	ELECT	2.2MF	20%	50V
C124	1-161-494-00	CERAMIC	0.022MF	30%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C125	1-161-279-00	CERAMIC	10PF	5%	50V
C126	1-161-323-00	CERAMIC	0.001MF	10%	50V
C127	1-123-321-00	ELECT	220MF	20%	16V
C128	1-161-494-00	CERAMIC	0.022MF	30%	25V
C129	1-161-494-00	CERAMIC	0.022MF	30%	25V
C130	1-161-494-00	CERAMIC	0.022MF	30%	25V
C131	1-123-607-00	ELECT	0.1MF	20%	50V
C132	1-161-494-00	CERAMIC	0.022MF	30%	25V
C133	1-161-494-00	CERAMIC	0.022MF	30%	25V
C134	1-161-494-00	CERAMIC	0.022MF	30%	25V
C135	1-161-494-00	CERAMIC	0.022MF	30%	25V
C136	1-161-494-00	CERAMIC	0.022MF	30%	25V
C137	1-123-356-00	ELECT	10MF	20%	16V
C138	1-161-494-00	CERAMIC	0.022MF	30%	25V
C139	1-161-494-00	CERAMIC	0.022MF	30%	25V
C140	1-107-310-00	MICA	220PF	5%	500V
C141	1-107-310-00	MICA	220PF	5%	500V
C142	1-107-317-00	MICA	33PF	5%	500V
C143	1-123-356-00	ELECT	10MF	20%	16V
C144	1-161-321-00	CERAMIC	680PF	10%	50V
C145	1-108-363-00	MYLAR	0.12MF	10%	50V
C150	1-161-494-00	CERAMIC	0.022MF	30%	25V
C151	1-123-610-00	ELECT	0.47MF	20%	50V
C152	1-161-494-00	CERAMIC	0.022MF	30%	25V
C153	1-161-494-00	CERAMIC	0.022MF	30%	25V
C154	1-123-321-00	ELECT	220MF	20%	16V
C155	1-123-321-00	ELECT	220MF	20%	16V
C156	1-161-494-00	CERAMIC	0.022MF	30%	25V
C201	1-123-671-00	ELECT	100MF	20%	10V
C202	1-123-668-00	ELECT	22MF	20%	10V
C203	1-108-595-00	MYLAR	0.047MF	5%	50V
C204	1-123-487-00	ELECT	470MF	20%	16V
C205	1-103-749-00	POLYSTYRENE	0.01MF	5%	50V
C206	1-123-487-00	ELECT	470MF	20%	16V
C207	1-108-571-00	MYLAR	0.0047MF	5%	50V
C208	1-123-617-00	ELECT	10MF	20%	16V
C209	1-123-617-00	ELECT	10MF	20%	16V
C210	1-161-322-00	CERAMIC	820PF	10%	50V
C211	1-123-616-00	ELECT	4.7MF	20%	25V
C212	1-123-610-00	ELECT	0.47MF	20%	50V
C213	1-108-565-00	MYLAR	0.0027MF	5%	50V
C214	1-104-067-00	POLYSTYRENE	390PF	5%	50V
C215	1-108-587-00	MYLAR	0.022MF	5%	50V
C216	1-123-306-00	ELECT	47MF	20%	10V
C217	1-123-306-00	ELECT	47MF	20%	10V

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CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

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- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C218	1-123-694-00	ELECT	220MF	20%	25V
C219	1-123-694-00	ELECT	220MF	20%	25V
C220	1-104-230-00	(AEP,UK).....POLYSTYRENE	0.0024MF	5%	125V
C220	1-104-237-00	(US,Canadian)...POLYSTYRENE	0.0024MF	5%	125V
C221	1-123-678-00	ELECT	10MF	20%	16V
C222	1-107-037-00	MICA	82PF	5%	500V
C223	1-123-497-00	ELECT	470MF	20%	25V
C224	1-123-497-00	ELECT	470MF	20%	25V
C225	1-101-005-00	CERAMIC	0.022MF		50V
C270	1-104-230-00	(AEP,UK).....POLYSTYRENE	0.0024MF	5%	125V
C270	1-104-237-00	(US,Canadian)...POLYSTYRENE	0.0024MF	5%	125V
C271	1-123-678-00	ELECT	10MF	20%	16V
C272	1-107-037-00	MICA	82PF	5%	500V
C301	1-161-494-00	CERAMIC	0.022MF	30%	25V
C302	1-161-494-00	CERAMIC	0.022MF	30%	25V
C303	1-161-323-00	CERAMIC	0.001MF	10%	50V
C304	1-161-494-00	CERAMIC	0.022MF	30%	25V
C305	1-161-494-00	CERAMIC	0.022MF	30%	25V
C306	1-161-494-00	CERAMIC	0.022MF	30%	25V
C307	1-161-323-00	CERAMIC	0.001MF	10%	50V
C308	1-161-494-00	CERAMIC	0.022MF	30%	25V
C309	1-161-494-00	CERAMIC	0.022MF	30%	25V
C310	1-161-494-00	CERAMIC	0.022MF	30%	25V
C311	1-123-317-00	ELECT	22MF	20%	16V
C312	1-161-494-00	CERAMIC	0.022MF	30%	25V
C313	1-123-317-00	ELECT	22MF	20%	16V
C314	1-123-356-00	ELECT	10MF	20%	16V
C315	1-161-494-00	CERAMIC	0.022MF	30%	25V
C316	1-161-494-00	CERAMIC	0.022MF	30%	25V
C317	1-161-494-00	CERAMIC	0.022MF	30%	25V
C401	1-102-127-00	CERAMIC	0.0068MF	10%	50V
C402	1-102-127-00	CERAMIC	0.0068MF	10%	50V
C403	1-102-127-00	CERAMIC	0.0068MF	10%	50V
C404	1-123-354-00	ELECT	3.3MF	20%	50V
C405	1-123-356-00	ELECT	10MF	20%	16V
C410	1-123-474-00	ELECT	100MF	20%	10V
C411	1-123-356-00	ELECT	10MF	20%	16V
C412	1-123-353-00	ELECT	2.2MF	20%	50V
C413	1-161-329-00	CERAMIC	0.0068MF	30%	25V
C501 ⚠	1-123-509-00	ELECT	2200MF	20%	35V
C502	1-123-682-00	ELECT	100MF	20%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C503	1-123-324-00	ELECT	1000MF	20%	16V
C504 ⚠	1-123-488-00	ELECT	1000MF	20%	16V
C505	1-123-486-00	ELECT	330MF	20%	16V
C506	1-123-306-00	ELECT	47MF	20%	10V
C507 ⚠	1-123-487-00	ELECT	470MF	20%	16V
C508	1-123-486-00	ELECT	330MF	20%	16V
C509	1-123-306-00	ELECT	47MF	20%	10V
C510 ⚠	1-123-515-00	ELECT	330MF	20%	50V
C511	1-123-513-00	ELECT	100MF	20%	50V
C512	1-123-359-00	ELECT	47MF	20%	35V
C513 ⚠	1-123-515-00	ELECT	330MF	20%	50V
C514	1-123-513-00	ELECT	100MF	20%	50V
C515	1-123-359-00	ELECT	47MF	20%	35V
C516	1-123-359-00	ELECT	47MF	20%	35V
C517	1-123-682-00	ELECT	100MF	20%	16V
C518	1-123-324-00	ELECT	1000MF	20%	16V
C519	1-101-880-00	CERAMIC	47PF	5%	50V
C520	1-121-352-00	ELECT	47MF	20%	10V
C601	1-161-494-00	CERAMIC	0.022MF	30%	25V
C602	1-123-607-00	ELECT	0.1MF	20%	50V
C603	1-101-005-00	CERAMIC	0.022MF		50V
C604	1-123-359-00	ELECT	47MF	20%	35V
C606	1-101-005-00	CERAMIC	0.022MF		50V
C607	1-102-522-00	CERAMIC	51PF	5%	50V
C608	1-102-522-00	CERAMIC	51PF	5%	50V
C609	1-102-106-00	CERAMIC	100PF	10%	50V
C610	1-101-005-00	CERAMIC	0.022MF		50V
C611	1-101-005-00	CERAMIC	0.022MF		50V
C612	1-161-494-00	CERAMIC	0.022MF	30%	25V
C613	1-161-317-00	CERAMIC	330PF	10%	50V
C614	1-161-494-00	CERAMIC	0.022MF	30%	25V
C615	1-161-494-00	CERAMIC	0.022MF	30%	25V
C617	1-161-494-00	CERAMIC	0.022MF	30%	25V
C618	1-123-610-00	ELECT	0.47MF	20%	50V
C619	1-161-494-00	CERAMIC	0.022MF	30%	25V
C621	1-101-005-00	CERAMIC	0.022MF		50V
C701	1-161-494-00	CERAMIC	0.022MF	30%	25V
C702	1-161-494-00	CERAMIC	0.022MF	30%	25V
C703	1-161-494-00	CERAMIC	0.022MF	30%	25V
C704	1-161-494-00	CERAMIC	0.022MF	30%	25V
C705	1-161-494-00	CERAMIC	0.022MF	30%	25V
C706	1-161-494-00	CERAMIC	0.022MF	30%	25V
C707	1-161-494-00	CERAMIC	0.022MF	30%	25V
C901 ⚠	1-161-744-00	(AEP,UK).....CERAMIC	0.01MF		400V
C901 ⚠	1-161-749-00	(US,Canadian)...CERAMIC	0.01MF		125V
CF101	1-527-796-00	FILTER, CERAMIC			
CF102	1-527-796-00	FILTER, CERAMIC			

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CF103	1-527-796-00	FILTER, CERAMIC
CF104	1-527-796-00	FILTER, CERAMIC
CF301	1-567-092-00	FILTER, CERAMIC
CNJ701	1-507-829-00	(US,Canadian)...JACK, EIAJ (F TYPE)
CNJ701	1-507-829-00	(AEP,UK).....PLUG, CONNECTOR (PAL)
CNJ702	1-507-829-00	(US,Canadian)...JACK, EIAJ (F TYPE)
CNJ702	1-564-235-00	(AEP,UK).....PLUG, CONNECTOR (PAL)
CNJ903	1-561-598-21	SOCKET 4P
CP501	1-102-394-00	CERAMIC 250V
CP502	1-102-394-00	CERAMIC 250V
CP503	1-102-394-00	CERAMIC 250V
CP504	1-102-394-00	CERAMIC 250V
CP505	1-102-394-00	CERAMIC 250V
CP602	1-231-849-00	COMPOSITION CIRCUIT BLOCK
CP605	1-231-619-00	COMPOSITION CIRCUIT BLOCK
CP606	1-231-619-00	COMPOSITION CIRCUIT BLOCK
CP608	1-231-620-00	COMPOSITION CIRCUIT BLOCK
D101	8-719-815-55	DIODE 1S1555
D102	8-719-815-55	DIODE 1S1555
D103	8-719-815-55	DIODE 1S1555
D104	8-719-815-55	DIODE 1S1555
D201	8-719-815-55	DIODE 1S1555
D202	8-719-815-55	DIODE 1S1555
D203	8-719-815-55	DIODE 1S1555
D204	8-719-815-55	DIODE 1S1555
D301	8-719-422-21	DIODE 1T22AM
D302	8-719-422-21	DIODE 1T22AM
D303	8-719-422-21	DIODE 1T22AM
D304	8-719-422-21	DIODE 1T22AM
D305	8-719-026-11	DIODE 1T261
D306	8-719-026-11	DIODE 1T261
D307	8-719-815-55	DIODE 1S1555
D401	8-719-815-55	DIODE 1S1555
D402	8-719-815-55	DIODE 1S1555
D403	8-719-815-55	DIODE 1S1555
D404	8-719-815-55	DIODE 1S1555
D405	8-719-910-78	DIODE HZ7C2L
D501	8-719-210-12	DIODE 10DF2
D502	8-719-210-12	DIODE 10DF2
D503	8-719-200-02	DIODE 10E-2
D504	8-719-200-02	DIODE 10E-2
D505	8-719-200-02	DIODE 10E-2
D506	8-719-200-02	DIODE 10E-2
D507	8-719-200-02	DIODE 10E-2

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D508	8-719-200-02	DIODE 10E-2
D509	8-719-210-12	DIODE 10DF2
D510	8-719-210-12	DIODE 10DF2
D511	8-719-910-64	DIODE HZ6B1L
D512	8-719-910-64	DIODE HZ6B1L
D513	8-719-910-64	DIODE HZ6B1L
D514	8-719-913-02	DIODE HZ30-2L
D515	8-719-913-02	DIODE HZ30-2L
D516	8-719-901-62	DIODE HZ16-2L
D517	8-719-931-06	DIODE EQB01-06
D518	8-719-910-64	DIODE HZ6B1L
D601	8-719-815-55	DIODE 1S1555
D602	8-719-815-55	DIODE 1S1555
D603	8-719-815-55	DIODE 1S1555
D604	8-719-815-55	DIODE 1S1555
D605	8-719-815-55	DIODE 1S1555
D606	8-719-815-55	DIODE 1S1555
D607	8-719-815-55	DIODE 1S1555
D608	8-719-815-55	DIODE 1S1555
D609	8-719-815-55	DIODE 1S1555
D610	8-719-815-55	DIODE 1S1555
D701	8-719-100-02	DIODE 1S2222
D702	8-719-100-02	DIODE 1S2222
D703	8-719-100-02	DIODE 1S2222
D704	8-719-100-02	DIODE 1S2222
D801	8-719-815-55	DIODE 1S1555
D802	8-719-815-55	DIODE 1S1555
D803	8-719-815-55	DIODE 1S1555
D804	8-719-815-55	DIODE 1S1555
D805	8-719-815-55	DIODE 1S1555
D806	8-719-815-55	DIODE 1S1555
D807	8-719-815-55	DIODE 1S1555
D808	8-719-815-55	DIODE 1S1555
D809	8-719-815-55	DIODE 1S1555
D810	8-719-815-55	DIODE 1S1555
D811	8-719-815-55	DIODE 1S1555
D812	8-719-815-55	DIODE 1S1555
D813	8-719-815-55	DIODE 1S1555
D901	8-719-815-55	DIODE 1S1555
FE101	A-4344-032-A	FRONT END (FEE-005W)
FLT801	1-519-278-00	INDICATOR TUBE, FLUORESCENT
IC101	8-759-812-35	IC LA1235
IC102	8-759-111-63	IC UPC1163H
IC103	8-759-907-01	IC TL07CP

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CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
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COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC201	8-759-100-14	IC UPC1223C
IC202	8-759-240-66	IC TC4066BP
IC203	8-759-990-72	IC TL072CP
IC204	8-759-900-72	IC NE5532P
IC301	8-759-906-38	IC TL490C
IC601	8-759-617-78	IC CX778A
IC602	8-759-611-00	IC CX761A
IC603	8-759-101-08	IC UPD553C225
IC604	8-759-140-11	IC UPD4011BC
IC605	8-759-990-23	IC TMS1024N2L
IC606	8-759-645-17	IC M54517P
IC607	8-759-140-49	IC UPD4049C
IFT101	1-404-312-00	TRANSFORMER, IF
IFT102	1-404-250-00	TRANSFORMER, DISCRIMINATOR
JW50 ♦	1-564-188-00	BAR, BUS
JW51 ♦	1-564-188-00	BAR, BUS
JW52 ♦	1-564-188-00	BAR, BUS
JW53 ♦	1-564-188-00	BAR, BUS
L101	1-407-169-XX	MICRO INDUCTOR 100UH
L102	1-407-169-XX	MICRO INDUCTOR 100UH
L103	1-407-169-XX	MICRO INDUCTOR 100UH
L104	1-407-165-XX	MICRO INDUCTOR 47UH
L201	1-426-092-00	COIL, (ALIGNMENT)
L601	1-407-169-XX	MICRO INDUCTOR 100UH
LPF101	1-231-422-00	FILTER, LOWPASS
LPF201	1-231-421-00	FILTER, LOWPASS
LPF251	1-231-421-00	FILTER, LOWPASS
PL801	1-518-518-00	LAMP, PILOT
PL802	1-518-518-00	LAMP, PILOT
PL803	1-518-518-00	LAMP, PILOT
PL804	1-518-518-00	LAMP, PILOT
PL805	1-518-518-00	LAMP, PILOT
PL806	1-518-518-00	LAMP, PILOT
PL807	1-518-518-00	LAMP, PILOT
PL808	1-518-518-00	LAMP, PILOT
PT901⚠	1-447-565-00	(US,Canadian)...TRANSFORMER, POWER
PT901⚠	1-447-566-00	(AEP,UK).....TRANSFORMER, POWER
Q101	8-729-671-14	TRANSISTOR 2SC710-14
Q102	8-729-671-14	TRANSISTOR 2SC710-14
Q103	8-729-671-14	TRANSISTOR 2SC710-14
Q104	8-729-671-14	TRANSISTOR 2SC710-14
Q105	8-729-671-14	TRANSISTOR 2SC710-14
Q106	8-729-671-14	TRANSISTOR 2SC710-14
Q107	8-729-245-83	TRANSISTOR 2SC2458
Q108	8-729-245-83	TRANSISTOR 2SC2458
Q109	8-729-671-14	TRANSISTOR 2SC710-14

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q110	8-729-245-83	TRANSISTOR 2SC2458
Q111	8-729-245-83	TRANSISTOR 2SC2458
Q112	8-729-245-83	TRANSISTOR 2SC2458
Q113	8-729-245-83	TRANSISTOR 2SC2458
Q114	8-729-245-83	TRANSISTOR 2SC2458
Q115	8-729-671-14	TRANSISTOR 2SC710-14
Q116	8-729-663-47	TRANSISTOR 2SC1364
Q201	8-729-204-82	TRANSISTOR 2SA1048
Q202	8-729-203-04	TRANSISTOR 2SK30A
Q301	8-729-671-14	TRANSISTOR 2SC710-14
Q302	8-729-671-14	TRANSISTOR 2SC710-14
Q303	8-729-671-14	TRANSISTOR 2SC710-14
Q304	8-729-245-83	TRANSISTOR 2SC2458
Q305	8-729-245-83	TRANSISTOR 2SC2458
Q306	8-729-245-83	TRANSISTOR 2SC2458
Q311	8-729-204-82	TRANSISTOR 2SA1048
Q312	8-729-204-82	TRANSISTOR 2SA1048
Q313	8-729-204-82	TRANSISTOR 2SA1048
Q314	8-729-204-82	TRANSISTOR 2SA1048
Q315	8-729-204-82	TRANSISTOR 2SA1048
Q316	8-729-204-82	TRANSISTOR 2SA1048
Q317	8-729-204-82	TRANSISTOR 2SA1048
Q318	8-729-204-82	TRANSISTOR 2SA1048
Q319	8-729-204-82	TRANSISTOR 2SA1048
Q320	8-729-204-82	TRANSISTOR 2SA1048
Q401	8-729-201-83	TRANSISTOR 2SC3112
Q402	8-729-245-83	TRANSISTOR 2SC2458
Q403	8-729-663-47	TRANSISTOR 2SC1364
Q404	8-729-245-83	TRANSISTOR 2SC2458
Q405	8-729-245-83	TRANSISTOR 2SC2458
Q406	8-729-204-82	TRANSISTOR 2SA1048
Q407	8-729-245-83	TRANSISTOR 2SC2458
Q408	8-729-245-83	TRANSISTOR 2SC2458
Q409	8-729-204-82	TRANSISTOR 2SA1048
Q410	8-729-113-32	TRANSISTOR 2SB733
Q411	8-729-245-83	TRANSISTOR 2SC2458
Q501	8-729-331-53	TRANSISTOR 2SC1983
Q502	8-729-245-83	TRANSISTOR 2SC2458
Q503	8-729-245-83	TRANSISTOR 2SC2458
Q504	8-729-224-61	TRANSISTOR 2SK246
Q505	8-729-398-62	TRANSISTOR 2SC1826
Q506	8-729-113-32	TRANSISTOR 2SB733
Q507	8-729-117-43	TRANSISTOR 2SD774
Q508	8-729-377-12	TRANSISTOR 2SA768
Q509	8-729-103-43	TRANSISTOR 2SB734
Q510	8-729-244-61	TRANSISTOR 2SK246
Q511	8-729-177-43	TRANSISTOR 2SD774

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- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

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- MMH : mH, UH : μH

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SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q601	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q602	8-729-664-48	TRANSISTOR 2SC1362-48
Q605	8-729-245-83	TRANSISTOR 2SC2458
Q606	8-729-245-83	TRANSISTOR 2SC2458
Q607	8-729-245-83	TRANSISTOR 2SC2458
Q608	8-729-204-82	TRANSISTOR 2SA1048
Q609	8-729-204-82	TRANSISTOR 2SA1048
Q610	8-729-204-82	TRANSISTOR 2SA1048
Q611	8-729-204-82	TRANSISTOR 2SA1048
Q612	8-729-204-82	TRANSISTOR 2SA1048
Q613	8-729-204-82	TRANSISTOR 2SA1048
Q614	8-729-204-82	TRANSISTOR 2SA1048
Q615	8-729-204-82	TRANSISTOR 2SA1048
Q616	8-729-204-82	TRANSISTOR 2SA1048
Q617	8-729-204-82	TRANSISTOR 2SA1048
Q618	8-729-204-82	TRANSISTOR 2SA1048
Q619	8-729-204-82	TRANSISTOR 2SA1048
Q620	8-729-204-82	TRANSISTOR 2SA1048
Q621	8-729-204-82	TRANSISTOR 2SA1048
Q622	8-729-204-82	TRANSISTOR 2SA1048
Q623	8-729-204-82	TRANSISTOR 2SA1048
Q624	8-729-663-47	TRANSISTOR 2SC1364
Q630	8-729-245-83	TRANSISTOR 2SC2458
Q631	8-729-245-83	TRANSISTOR 2SC2458
Q632	8-729-245-83	TRANSISTOR 2SC2458
Q633	8-729-245-83	TRANSISTOR 2SC2458
Q701	8-729-902-11	TRANSISTOR 2SC2021
Q702	8-729-902-11	TRANSISTOR 2SC2021
Q703	8-729-902-11	TRANSISTOR 2SC2021
Q704	8-729-902-11	TRANSISTOR 2SC2021
R101	1-246-473-00	CARBON 1K 5% 1/4W
R102	1-246-441-00	CARBON 47 5% 1/4W
R103	1-246-461-00	CARBON 330 5% 1/4W
R104	1-246-461-00	CARBON 330 5% 1/4W
R105	1-246-461-00	CARBON 330 5% 1/4W
R106	1-246-507-00	CARBON 27K 5% 1/4W
R107	1-246-465-00	CARBON 470 5% 1/4W
R108	1-246-501-00	CARBON 15K 5% 1/4W
R109	1-246-461-00	CARBON 330 5% 1/4W
R110	1-246-465-00	CARBON 470 5% 1/4W
R111	1-246-461-00	CARBON 330 5% 1/4W
R112	1-246-467-00	CARBON 560 5% 1/4W
R113	1-246-507-00	CARBON 27K 5% 1/4W
R114	1-246-501-00	CARBON 15K 5% 1/4W
R115	1-246-461-00	CARBON 330 5% 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R116	1-246-461-00	CARBON 330 5% 1/4W
R117	1-246-507-00	CARBON 27K 5% 1/4W
R118	1-246-477-00	CARBON 1.5K 5% 1/4W
R119	1-246-501-00	CARBON 15K 5% 1/4W
R120	1-246-515-00	CARBON 56K 5% 1/4W
R121	1-246-497-00	CARBON 10K 5% 1/4W
R122	1-246-485-00	CARBON 3.3K 5% 1/4W
R123	1-246-485-00	CARBON 3.3K 5% 1/4W
R124	1-246-501-00	CARBON 15K 5% 1/4W
R125	1-246-461-00	CARBON 330 5% 1/4W
R126	1-246-521-00	CARBON 100K 5% 1/4W
R127	1-246-493-00	CARBON 6.8K 5% 1/4W
R128	1-246-497-00	CARBON 10K 5% 1/4W
R129	1-246-425-00	CARBON 10 5% 1/4W
R130	1-246-481-00	CARBON 2.2K 5% 1/4W
R131 ⚠	1-247-109-00	CARBON 120 5% 1/4W F
R132	1-246-513-00	CARBON 47K 5% 1/4W
R133	1-246-515-00	CARBON 56K 5% 1/4W
R134	1-246-483-00	CARBON 2.7K 5% 1/4W
R135	1-246-463-00	CARBON 390 5% 1/4W
R136	1-246-457-00	CARBON 220 5% 1/4W
R137	1-246-477-00	CARBON 1.5K 5% 1/4W
R138	1-246-477-00	CARBON 1.5K 5% 1/4W
R139	1-246-491-00	CARBON 5.6K 5% 1/4W
R140	1-246-491-00	CARBON 5.6K 5% 1/4W
R141	1-214-755-00	METAL 12K 1% 1/4W
R142	1-214-746-00	METAL 5.1K 1% 1/4W
R143	1-214-745-00	METAL 4.7K 1% 1/4W
R144	1-246-525-00	CARBON 150K 5% 1/4W
R145	1-246-513-00	CARBON 47K 5% 1/4W
R146	1-214-752-00	METAL 9.1K 1% 1/4W
R147	1-247-855-00	CARBON 10K 5% 1/6W
R148	1-247-873-00	CARBON 56K 5% 1/6W
R149	1-246-497-00	CARBON 10K 5% 1/4W
R150	1-246-505-00	CARBON 22K 5% 1/4W
R151	1-246-497-00	CARBON 10K 5% 1/4W
R152	1-246-513-00	CARBON 47K 5% 1/4W
R153	1-246-497-00	CARBON 10K 5% 1/4W
R160	1-246-521-00	CARBON 100K 5% 1/4W
R161	1-246-545-00	CARBON 1M 5% 1/4W
R162	1-246-529-00	CARBON 220K 5% 1/4W
R163	1-246-545-00	CARBON 1M 5% 1/4W
R164	1-246-545-00	CARBON 1M 5% 1/4W
R165	1-246-537-00	CARBON 470K 5% 1/4W
R167	1-246-521-00	CARBON 100K 5% 1/4W

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CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R169	1-246-449-00	CARBON	100	5%	1/4W	
R170	1-246-467-00	CARBON	560	5%	1/4W	
R171	1-246-497-00	CARBON	10K	5%	1/4W	
R201 ⚠	1-247-109-00	CARBON	120	5%	1/4W	F
R202	1-214-156-00	METAL	10K	1%	1/4W	
R203	1-214-156-00	METAL	10K	1%	1/4W	
R204	1-214-163-00	METAL	20K	1%	1/4W	
R205	1-246-467-00	CARBON	560	5%	1/4W	
R206	1-247-823-00	CARBON	470	5%	1/6W	
R207	1-214-178-00	METAL	82K	1%	1/4W	
R208	1-214-759-00	METAL	18K	1%	1/4W	
R209	1-246-493-00	CARBON	6.8K	5%	1/4W	
R210	1-214-168-00	METAL	33K	1%	1/4W	
R211	1-214-167-00	METAL	30K	1%	1/4W	
R212	1-214-144-00	METAL	3.3K	1%	1/4W	
R213	1-214-746-00	METAL	5.1K	1%	1/4W	
R214	1-246-545-00	CARBON	1M	5%	1/4W	
R215	1-214-888-00	METAL	10K	1%	1/2W	
R216	1-214-859-00	METAL	620	1%	1/2W	
R217	1-214-862-00	METAL	820	1%	1/2W	
R218	1-214-862-00	METAL	820	1%	1/2W	
R219	1-214-859-00	METAL	620	1%	1/2W	
R220	1-247-873-00	CARBON	56K	5%	1/6W	
R221	1-247-863-00	CARBON	22K	5%	1/6W	
R222	1-246-457-00	CARBON	220	5%	1/4W	
R223	1-246-473-00	CARBON	1K	5%	1/4W	
R224 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R225 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R226 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R227 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R228	1-246-545-00	CARBON	1M	5%	1/4W	
R229	1-246-505-00	CARBON	22K	5%	1/4W	
R230	1-214-888-00	METAL	10K	1%	1/2W	
R231	1-246-525-00	CARBON	150K	5%	1/4W	
R260	1-214-168-00	METAL	33K	1%	1/4W	
R261	1-214-167-00	METAL	30K	1%	1/4W	
R262	1-214-144-00	METAL	3.3K	1%	1/4W	
R263	1-214-746-00	METAL	5.1K	1%	1/4W	
R265	1-214-888-00	METAL	10K	1%	1/2W	
R266	1-214-859-00	METAL	620	1%	1/2W	
R267	1-214-862-00	METAL	820	1%	1/2W	
R268	1-214-862-00	METAL	820	1%	1/2W	
R269	1-214-859-00	METAL	620	1%	1/2W	
R280	1-214-888-00	METAL	10K	1%	1/2W	
R301	1-246-513-00	CARBON	47K	5%	1/4W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R302	1-246-501-00	CARBON	15K	5%	1/4W	
R303	1-246-469-00	CARBON	680	5%	1/4W	
R304	1-246-497-00	CARBON	10K	5%	1/4W	
R305	1-246-505-00	CARBON	22K	5%	1/4W	
R306	1-246-483-00	CARBON	2.7K	5%	1/4W	
R307	1-246-461-00	CARBON	330	5%	1/4W	
R308	1-246-497-00	CARBON	10K	5%	1/4W	
R309	1-246-505-00	CARBON	22K	5%	1/4W	
R310	1-246-491-00	CARBON	5.6K	5%	1/4W	
R311	1-246-461-00	CARBON	330	5%	1/4W	
R312	1-246-441-00	CARBON	47	5%	1/4W	
R313 ⚠	1-247-111-00	CARBON	150	5%	1/4W	F
R314	1-246-461-00	CARBON	330	5%	1/4W	
R320 ⚠	1-247-113-00	CARBON	180	5%	1/4W	F
R321	1-246-466-00	CARBON	510	5%	1/4W	
R322	1-247-855-00	CARBON	10K	5%	1/6W	
R323	1-247-839-00	CARBON	2.2K	5%	1/6W	
R324	1-247-879-00	CARBON	100K	5%	1/6W	
R325	1-247-855-00	CARBON	10K	5%	1/6W	
R326	1-247-839-00	CARBON	2.2K	5%	1/6W	
R327	1-247-879-00	CARBON	100K	5%	1/6W	
R328	1-247-855-00	CARBON	10K	5%	1/6W	
R329	1-247-839-00	CARBON	2.2K	5%	1/6W	
R330	1-247-879-00	CARBON	100K	5%	1/6W	
R331	1-247-855-00	CARBON	10K	5%	1/6W	
R332	1-247-839-00	CARBON	2.2K	5%	1/6W	
R333	1-247-879-00	CARBON	100K	5%	1/6W	
R334	1-247-855-00	CARBON	10K	5%	1/6W	
R335	1-247-839-00	CARBON	2.2K	5%	1/6W	
R336	1-247-879-00	CARBON	100K	5%	1/6W	
R337	1-247-855-00	CARBON	10K	5%	1/6W	
R338	1-247-839-00	CARBON	2.2K	5%	1/6W	
R339	1-247-879-00	CARBON	100K	5%	1/6W	
R340	1-247-855-00	CARBON	10K	5%	1/6W	
R341	1-247-839-00	CARBON	2.2K	5%	1/6W	
R342	1-247-879-00	CARBON	100K	5%	1/6W	
R343	1-247-855-00	CARBON	10K	5%	1/6W	
R344	1-247-839-00	CARBON	2.2K	5%	1/6W	
R345	1-247-879-00	CARBON	100K	5%	1/6W	
R346	1-247-855-00	CARBON	10K	5%	1/6W	
R347	1-247-839-00	CARBON	2.2K	5%	1/6W	
R348	1-247-879-00	CARBON	100K	5%	1/6W	
R349	1-247-855-00	CARBON	10K	5%	1/6W	
R350	1-247-839-00	CARBON	2.2K	5%	1/6W	
R351	1-247-879-00	CARBON	100K	5%	1/6W	

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CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R355	1-246-513-00	CARBON	47K	5%	1/4W	
R356	1-246-497-00	CARBON	10K	5%	1/4W	
R357	1-246-501-00	CARBON	15K	5%	1/4W	
R401	1-246-521-00	CARBON	100K	5%	1/4W	
R402	1-246-479-00	CARBON	1.8K	5%	1/4W	
R403	1-246-487-00	CARBON	3.9K	5%	1/4W	
R404	1-246-505-00	CARBON	22K	5%	1/4W	
R405	1-246-509-00	CARBON	33K	5%	1/4W	
R406	1-246-509-00	CARBON	33K	5%	1/4W	
R407	1-246-513-00	CARBON	47K	5%	1/4W	
R408	1-246-485-00	CARBON	3.3K	5%	1/4W	
R409	1-247-871-00	CARBON	47K	5%	1/6W	
R410	1-246-521-00	CARBON	100K	5%	1/4W	
R411	1-246-489-00	CARBON	4.7K	5%	1/4W	
R412	1-246-489-00	CARBON	4.7K	5%	1/4W	
R413	1-246-537-00	CARBON	470K	5%	1/4W	
R414	1-246-503-00	CARBON	18K	5%	1/4W	
R415	1-246-489-00	CARBON	4.7K	5%	1/4W	
R416	1-246-515-00	CARBON	56K	5%	1/4W	
R417	1-246-513-00	CARBON	47K	5%	1/4W	
R418	1-246-497-00	CARBON	10K	5%	1/4W	
R419	1-246-513-00	CARBON	47K	5%	1/4W	
R420	1-246-511-00	CARBON	39K	5%	1/4W	
R421	1-246-481-00	CARBON	2.2K	5%	1/4W	
R422	1-246-505-00	CARBON	22K	5%	1/4W	
R423	1-246-483-00	CARBON	2.7K	5%	1/4W	
R424	1-246-511-00	CARBON	39K	5%	1/4W	
R425	1-246-473-00	CARBON	1K	5%	1/4W	
R426	1-246-497-00	CARBON	10K	5%	1/4W	
R427	1-246-511-00	CARBON	39K	5%	1/4W	
R428 ⚠	1-206-640-00	METAL OXIDE	100	5%	2W	F
R429	1-246-483-00	CARBON	2.7K	5%	1/4W	
R501 ⚠	1-247-188-00	CARBON	4.7	5%	1/2W	F
R502	1-246-497-00	CARBON	10K	5%	1/4W	
R503	1-246-489-00	CARBON	4.7K	5%	1/4W	
R504	1-246-485-00	CARBON	3.3K	5%	1/4W	
R505 ⚠	1-247-085-00	CARBON	12	5%	1/4W	F
R506 ⚠	1-247-129-00	CARBON	820	5%	1/4W	F
R507	1-246-471-00	CARBON	820	5%	1/4W	
R508 ⚠	1-247-097-00	CARBON	39	5%	1/4W	F
R509 ⚠	1-247-129-00	CARBON	820	5%	1/4W	F
R510	1-246-471-00	CARBON	820	5%	1/4W	
R511 ⚠	1-247-097-00	CARBON	39	5%	1/4W	F
R512 ⚠	1-247-137-00	CARBON	1.8K	5%	1/4W	F
R513	1-246-479-00	CARBON	1.8K	5%	1/4W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R514 ⚠	1-247-097-00	CARBON	39	5%	1/4W	F
R515 ⚠	1-247-137-00	CARBON	1.8K	5%	1/4W	F
R516	1-246-479-00	CARBON	1.8K	5%	1/4W	
R517	1-246-497-00	CARBON	10K	5%	1/4W	
R518 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R519	1-246-447-00	CARBON	82	5%	1/4W	
R520 ⚠	1-247-097-00	CARBON	39	5%	1/4W	F
R530 ⚠	1-202-725-00	(US,Canadian)...SOLID	3.3M	10%	1/2W	
R601	1-246-489-00	CARBON	4.7K	5%	1/4W	
R602	1-246-467-00	CARBON	560	5%	1/4W	
R603	1-246-447-00	CARBON	82	5%	1/4W	
R604	1-246-493-00	CARBON	6.8K	5%	1/4W	
R605	1-246-493-00	CARBON	6.8K	5%	1/4W	
R606	1-246-489-00	CARBON	4.7K	5%	1/4W	
R607	1-246-535-00	CARBON	390K	5%	1/4W	
R608	1-246-505-00	CARBON	22K	5%	1/4W	
R609	1-246-505-00	CARBON	22K	5%	1/4W	
R610	1-246-505-00	CARBON	22K	5%	1/4W	
R611	1-246-518-00	CARBON	75K	5%	1/4W	
R612	1-246-545-00	CARBON	1M	5%	1/4W	
R613	1-247-879-00	CARBON	100K	5%	1/6W	
R614	1-246-515-00	CARBON	56K	5%	1/4W	
R615	1-247-873-00	CARBON	56K	5%	1/6W	
R616	1-246-501-00	CARBON	15K	5%	1/4W	
R617	1-247-881-00	CARBON	120K	5%	1/6W	
R618	1-247-828-00	CARBON	750	5%	1/6W	
R619	1-247-891-00	CARBON	330K	5%	1/6W	
R620	1-247-869-00	CARBON	39K	5%	1/6W	
R621	1-247-883-00	CARBON	150K	5%	1/6W	
R622	1-247-871-00	CARBON	47K	5%	1/6W	
R623	1-246-515-00	CARBON	56K	5%	1/4W	
R624	1-246-511-00	CARBON	39K	5%	1/4W	
R625	1-246-491-00	CARBON	5.6K	5%	1/4W	
R626	1-246-515-00	CARBON	56K	5%	1/4W	
R627	1-246-499-00	CARBON	12K	5%	1/4W	
R628	1-246-537-00	CARBON	470K	5%	1/4W	
R629	1-246-499-00	CARBON	12K	5%	1/4W	
R630	1-247-879-00	CARBON	100K	5%	1/6W	
R631	1-247-879-00	CARBON	100K	5%	1/6W	
R632	1-246-499-00	CARBON	12K	5%	1/4W	
R633	1-247-857-00	CARBON	12K	5%	1/6W	
R634	1-246-499-00	CARBON	12K	5%	1/4W	
R635	1-246-499-00	CARBON	12K	5%	1/4W	
R636	1-246-497-00	CARBON	10K	5%	1/4W	
R637	1-246-511-00	CARBON	39K	5%	1/4W	
R638	1-246-505-00	CARBON	22K	5%	1/4W	

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CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

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SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R639	1-247-879-00	CARBON	100K	5%	1/6W
R640	1-247-855-00	CARBON	10K	5%	1/6W
R641	1-247-857-00	CARBON	12K	5%	1/6W
R642	1-247-879-00	CARBON	100K	5%	1/6W
R643	1-247-879-00	CARBON	100K	5%	1/6W
R644	1-247-855-00	CARBON	10K	5%	1/6W
R645	1-247-857-00	CARBON	12K	5%	1/6W
R646	1-247-879-00	CARBON	100K	5%	1/6W
R647	1-247-879-00	CARBON	100K	5%	1/6W
R648	1-247-855-00	CARBON	10K	5%	1/6W
R649	1-247-857-00	CARBON	12K	5%	1/6W
R650	1-247-879-00	CARBON	100K	5%	1/6W
R651	1-247-879-00	CARBON	100K	5%	1/6W
R652	1-247-855-00	CARBON	10K	5%	1/6W
R653	1-247-857-00	CARBON	12K	5%	1/6W
R654	1-247-879-00	CARBON	100K	5%	1/6W
R655	1-247-879-00	CARBON	100K	5%	1/6W
R656	1-247-855-00	CARBON	10K	5%	1/6W
R657	1-247-857-00	CARBON	12K	5%	1/6W
R658	1-247-879-00	CARBON	100K	5%	1/6W
R659	1-247-879-00	CARBON	100K	5%	1/6W
R660	1-247-855-00	CARBON	10K	5%	1/6W
R661	1-247-857-00	CARBON	12K	5%	1/6W
R662	1-247-879-00	CARBON	100K	5%	1/6W
R663	1-247-879-00	CARBON	100K	5%	1/6W
R664	1-247-855-00	CARBON	10K	5%	1/6W
R665	1-247-879-00	CARBON	100K	5%	1/6W
R670	1-246-497-00	CARBON	10K	5%	1/4W
R671	1-246-497-00	CARBON	10K	5%	1/4W
R672	1-246-497-00	CARBON	10K	5%	1/4W
R673	1-246-497-00	CARBON	10K	5%	1/4W
R677	1-247-869-00	CARBON	39K	5%	1/6W
R701	1-246-483-00	CARBON	2.7K	5%	1/4W
R702	1-246-483-00	CARBON	2.7K	5%	1/4W
R703	1-246-485-00	CARBON	3.3K	5%	1/4W
R704	1-246-475-00	CARBON	1.2K	5%	1/4W
R705	1-244-897-00	CARBON	10K	5%	1/2W
R706	1-246-501-00	CARBON	15K	5%	1/4W
R707	1-246-444-00	CARBON	62	5%	1/4W
R708	1-246-444-00	CARBON	62	5%	1/4W
R709	1-246-429-00	CARBON	15	5%	1/4W
R710	1-246-485-00	CARBON	3.3K	5%	1/4W
R711	1-246-475-00	CARBON	1.2K	5%	1/4W
R712	1-246-497-00	CARBON	10K	5%	1/4W
R713	1-246-491-00	CARBON	5.6K	5%	1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R714	1-246-505-00	CARBON	22K	5%	1/4W
R715	1-246-497-00	CARBON	10K	5%	1/4W
R716	1-246-501-00	CARBON	15K	5%	1/4W
R717	1-246-497-00	CARBON	10K	5%	1/4W
R718	1-246-477-00	CARBON	1.5K	5%	1/4W
R719	1-246-497-00	CARBON	10K	5%	1/4W
R801	1-246-485-00	CARBON	3.3K	5%	1/4W
R901	1-214-859-00	METAL	620	1%	1/2W
R951	1-214-859-00	METAL	620	1%	1/2W
RT101	1-226-236-00	RES, ADJ, CARBON 10K			
RT102	1-226-236-00	RES, ADJ, CARBON 10K			
RT103	1-226-239-00	RES, ADJ, CARBON 100K			
RT201	1-224-256-XX	RES, ADJ, METAL GLAZE 220K			
RT203	1-224-252-31	RES, ADJ, METAL GLAZE 10K			
RT204	1-224-254-XX	RES, ADJ, METAL GLAZE 47K			
RT251	1-224-256-XX	RES, ADJ, METAL GLAZE 220K			
RT254	1-224-254-XX	RES, ADJ, METAL GLAZE 47K			
RT301	1-226-238-00	RES, ADJ, CARBON 50K			
RT302	1-226-238-00	RES, ADJ, CARBON 50K			
RT303	1-226-238-00	RES, ADJ, CARBON 50K			
RT401	1-226-239-00	RES, ADJ, CARBON 100K			
RT601	1-226-233-00	RES, ADJ, CARBON 1K			
RY101	1-515-498-00	RELAY			
RY201	1-515-457-00	RELAY			
S801	1-553-739-21	SWITCH, KEY BOARD			
S802	1-553-739-21	SWITCH, KEY BOARD			
S803	1-553-739-21	SWITCH, KEY BOARD			
S804	1-553-739-21	SWITCH, KEY BOARD			
S805	1-553-739-21	SWITCH, KEY BOARD			
S806	1-553-739-21	SWITCH, KEY BOARD			
S807	1-553-739-21	SWITCH, KEY BOARD			
S808	1-553-739-21	SWITCH, KEY BOARD			
S809	1-554-303-00	SWITCH, KEY BOARD			
S810	1-554-303-00	SWITCH, KEY BOARD			
S811	1-554-303-00	SWITCH, KEY BOARD			
S812	1-554-303-00	SWITCH, KEY BOARD			
S813	1-554-303-00	SWITCH, KEY BOARD			
S814	1-553-739-21	SWITCH, KEY BOARD			
S815	1-553-739-21	SWITCH, KEY BOARD			
S816	1-554-303-00	SWITCH, KEY BOARD			
S817	1-554-303-00	SWITCH, KEY BOARD			
S818	1-554-303-00	SWITCH, KEY BOARD			
S819	1-554-303-00	SWITCH, KEY BOARD			
S901 ⚠	1-553-318-00	(AEP,UK).....SWITCH, PUSH (AC POWER)			
S901 ⚠	1-553-319-00	(US,Canadian)...SWITCH, PUSH (AC POWER)			
S902	1-552-625-21	SWITCH, SLIDE			
X601	1-527-731-00	OSCILLATOR, CRYSTAL			

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

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